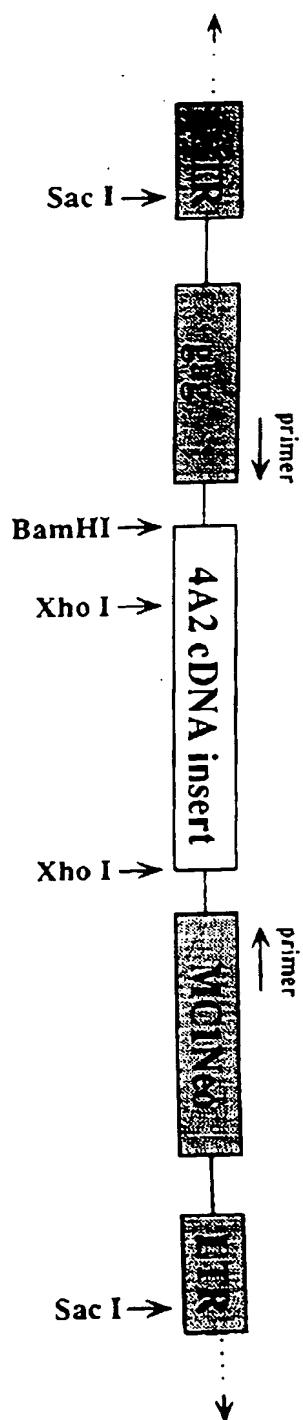
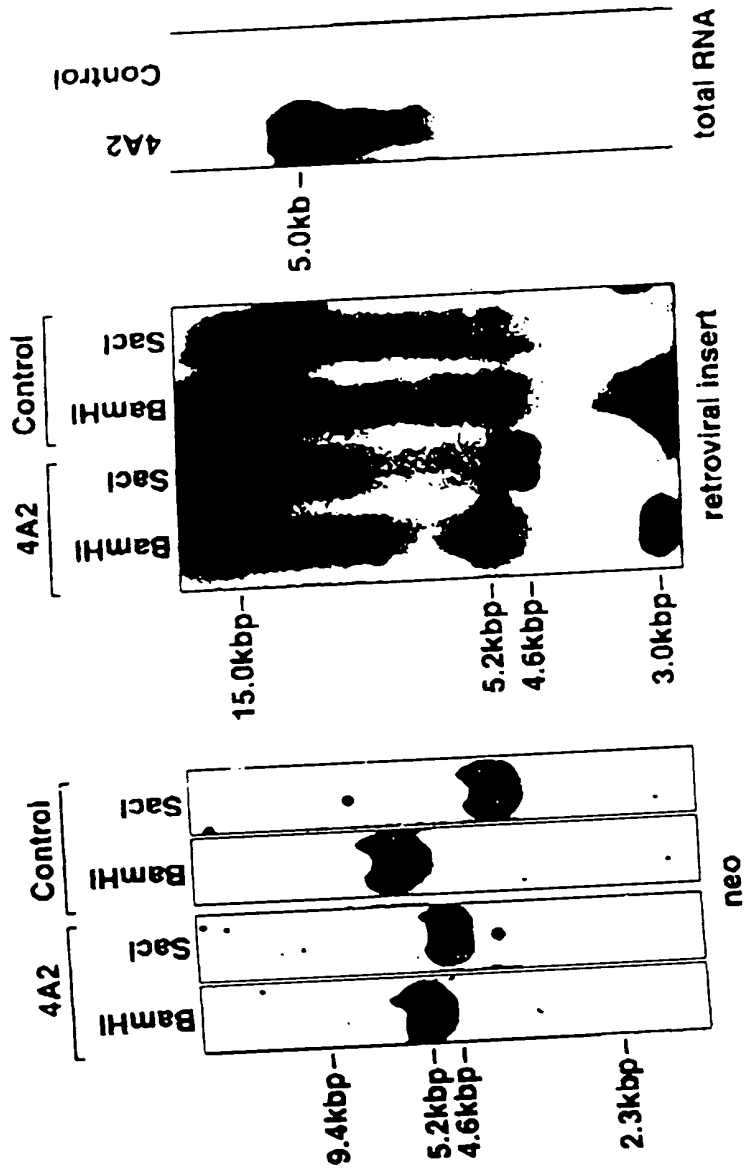


FIGURE 1



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FIGURE 2



SECRET

B

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FIGURE 4

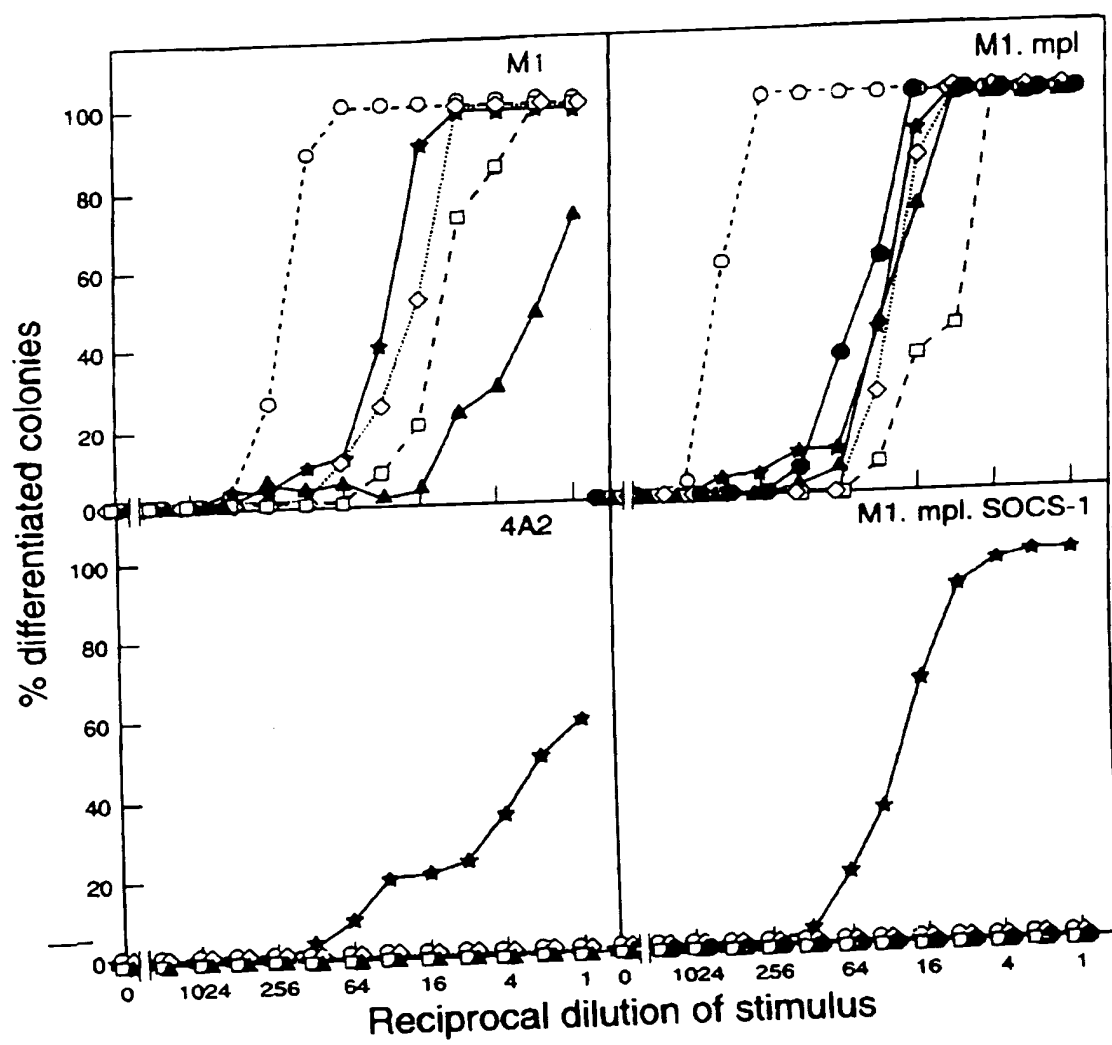


FIGURE 5

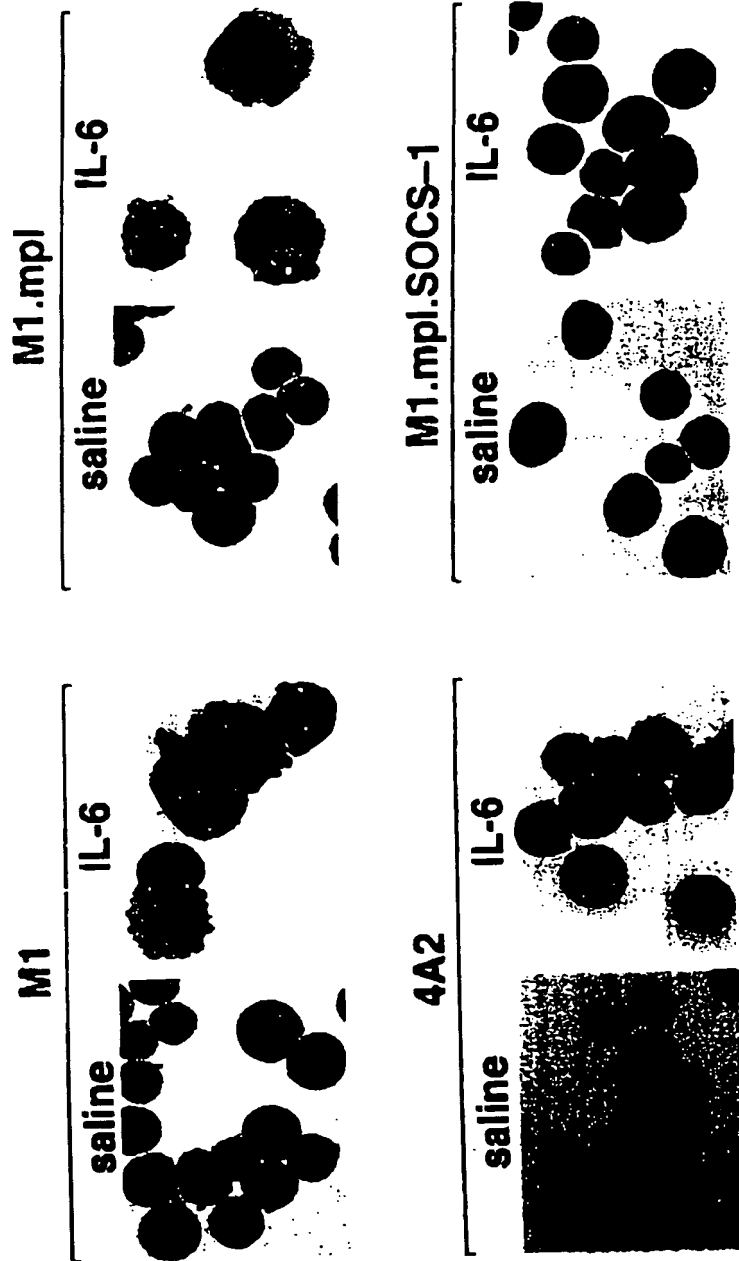


FIGURE 6

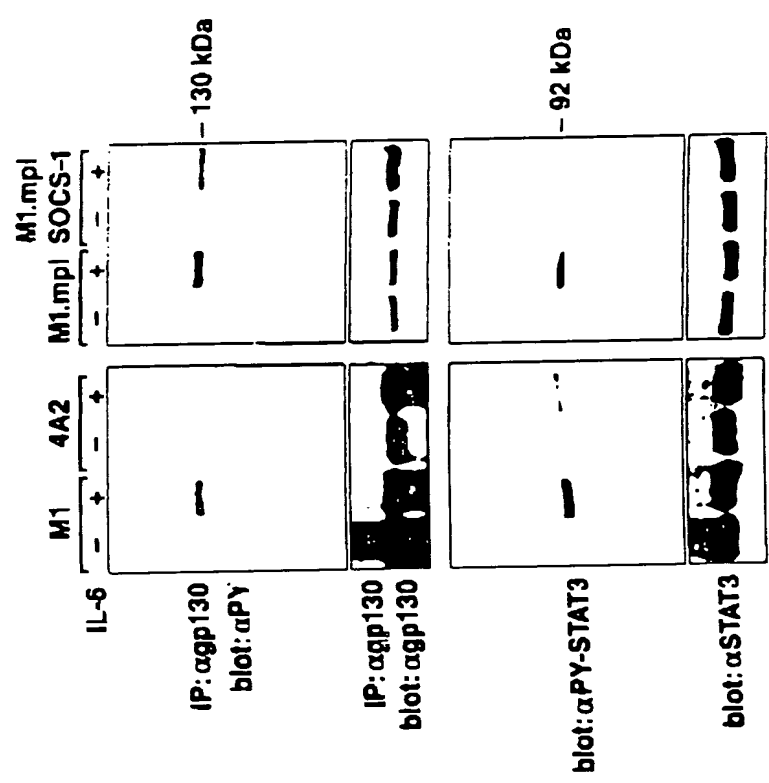
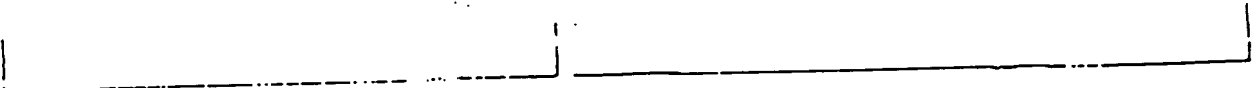


FIGURE 7A



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↑ ↑ ↑



1000 5000

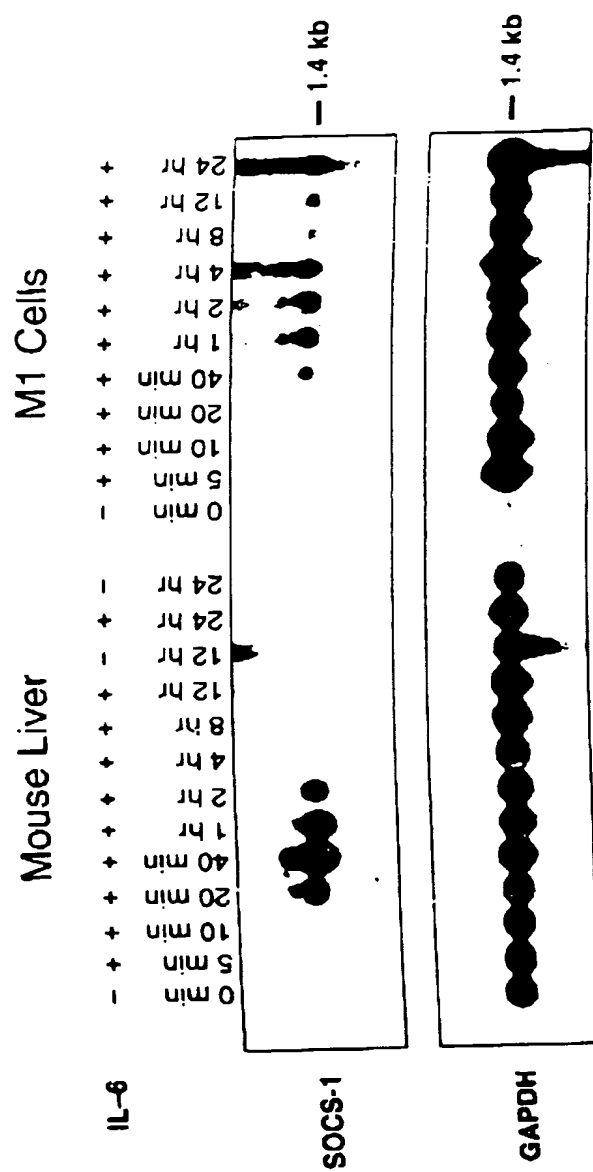
1000 5000

FIGURE 7B



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FIGURE 8

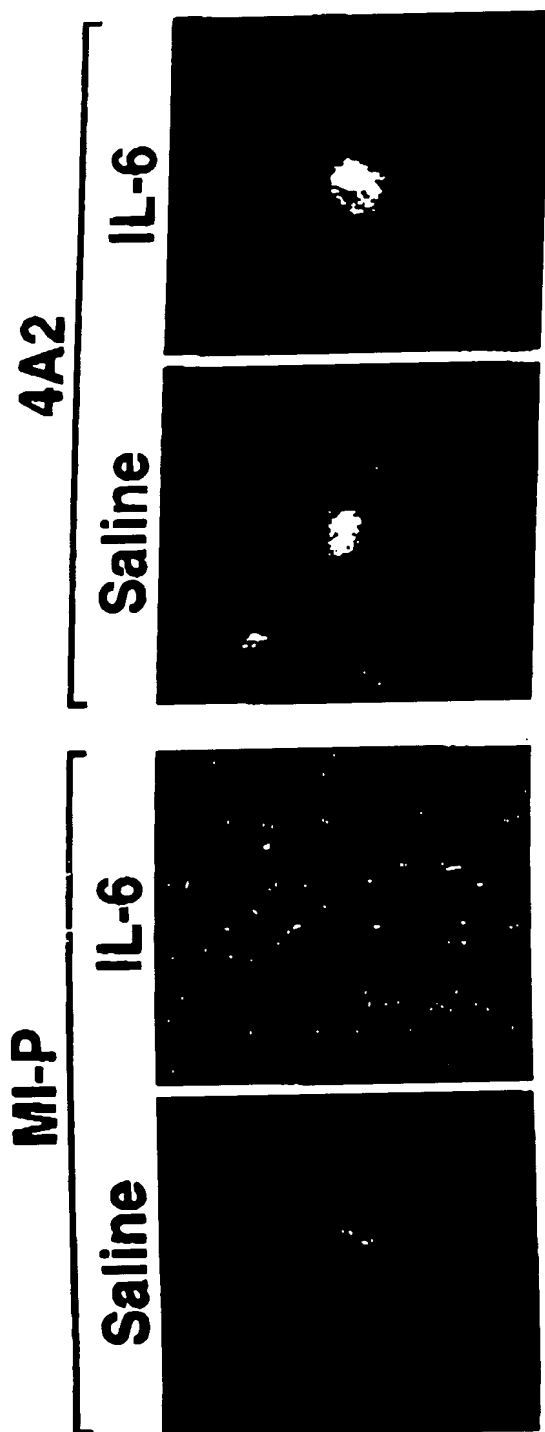


hs SOCS-1	(1)	MVAHNQVAADNAVSTAAEPRRRPEPSSSSSSSS - PAAPARPRPCPAVPAPA	(49)
rr SOCS-1	(1)	MVARNQVEADNAI SPASEPRRRPEPSSSSSSSSSS PAAPARPRPCPVVPAPA	(50)
mm SOCS-1	(1)	MVARNQVAADNAI SPAAEPRRRSEPSSSSSSSSSS PAAPVRPRPCPAVPAPA	(50)
mm SOCS-2	(1)	MTLRCLPSGNGADRTSOWGTAGLP EEQSPEA	(33)
mm SOCS-3	(1)	MVTHSKFPAAAGMSR	(14)
mm CIS	(1)	MVLCVOGSCPLLAVEQI GRRLPWAOSLELPGPAMQPLPTGAFPEEVTEET	(50)
hs SOCS-1	(50)	PGDTHF - RTFRSHADYRRI TRASALLDAGG	(97)
rr SOCS-1	(51)	PGDTHF - RTFRSHSDYRRI TRTSALLDAGG	(98)
mm SOCS-1	(51)	PGDTHF - RTFRSHSDYRRI TRTSALLDAGG	(98)
mm SOCS-2	(34)	PLDTSLRLKTFSSKSEYQLVVNAVRLKLOESG	(66)
mm SOCS-3	(15)	PVOAENEPKVLDPEGDLLCIAKTFSYLRESG	(64)
mm CIS	(51)	PVOAENEPKVLDPEGDLLCIAKTFSYLRESG	(100)
hs SOCS-1	(98)	V RORNC A MAS S H QAR	(141)
rr SOCS-1	(99)	V RORNC A MAS S H QAR	(142)
mm SOCS-1	(99)	V RORNC A MAS S H QAR	(142)
mm SOCS-2	(67)	E HSDY SA E QDK I CVKSKL	(116)
mm SOCS-3	(65)	A DQRH KOS TK QCEG S S Q OPRSTOPV	(117)
mm CIS	(101)	E HPSY TR EADSS NCLSRPRI	(150)
hs SOCS-1	(142)	ES E E AAPRRMLGAP	(165)
rr SOCS-1	(143)	ET E E AAPRRMLGAP	(166)
mm SOCS-1	(143)	ET E E AAPRRMLGAP	(166)
mm SOCS-2	(117)	KO H D QMCKDKRTGP	(140)
mm SOCS-3	(115)	PR K H PPPGTPSFSL	(164)
mm CIS	(151)	LA PD S Q ASCAADTRSD	(200)
hs SOCS-1	(168)	LRORR RP L E L O R I V A T G R E N E R R A N P	(198)
rr SOCS-1	(167)	LRORR RP L E L O R I V A A G R E N E R R A N P	(199)
mm SOCS-1	(167)	LRORR RP L E L O R I V A A G R E N E R R A N P	(199)
mm SOCS-2	(141)	EAPRNGTVHL LTKPLYTS PTLNHLAI KCTGT I WGLPLPT	(185)
mm SOCS-3	(165)	YYIYSGGEKPLVLSRPLSSN VAYLQHL D KTVNGHLOSVEKVTOLEGP	(213)
mm CIS	(201)	VATAVHCKLVOPFVRSS ARBLQMLCLVIMRLVAD VDCLEPLPR	(244)
hs SOCS-1	(199)	VLRDYLS S F P F Q I	(211)
rr SOCS-1	(200)	VLRDYLS S F P F Q I	(212)
mm SOCS-1	(200)	VLRDYLS S F P F Q I	(212)
mm SOCS-2	(186)	RLKDYLE E Y K R O X	(198)
mm SOCS-3	(214)	I R E F L D O Y D A P L	(225)
mm CIS	(245)	RMADYLR O Y P F Q L	(257)

Figure 9

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FIGURE 10



**FIGURE 11**

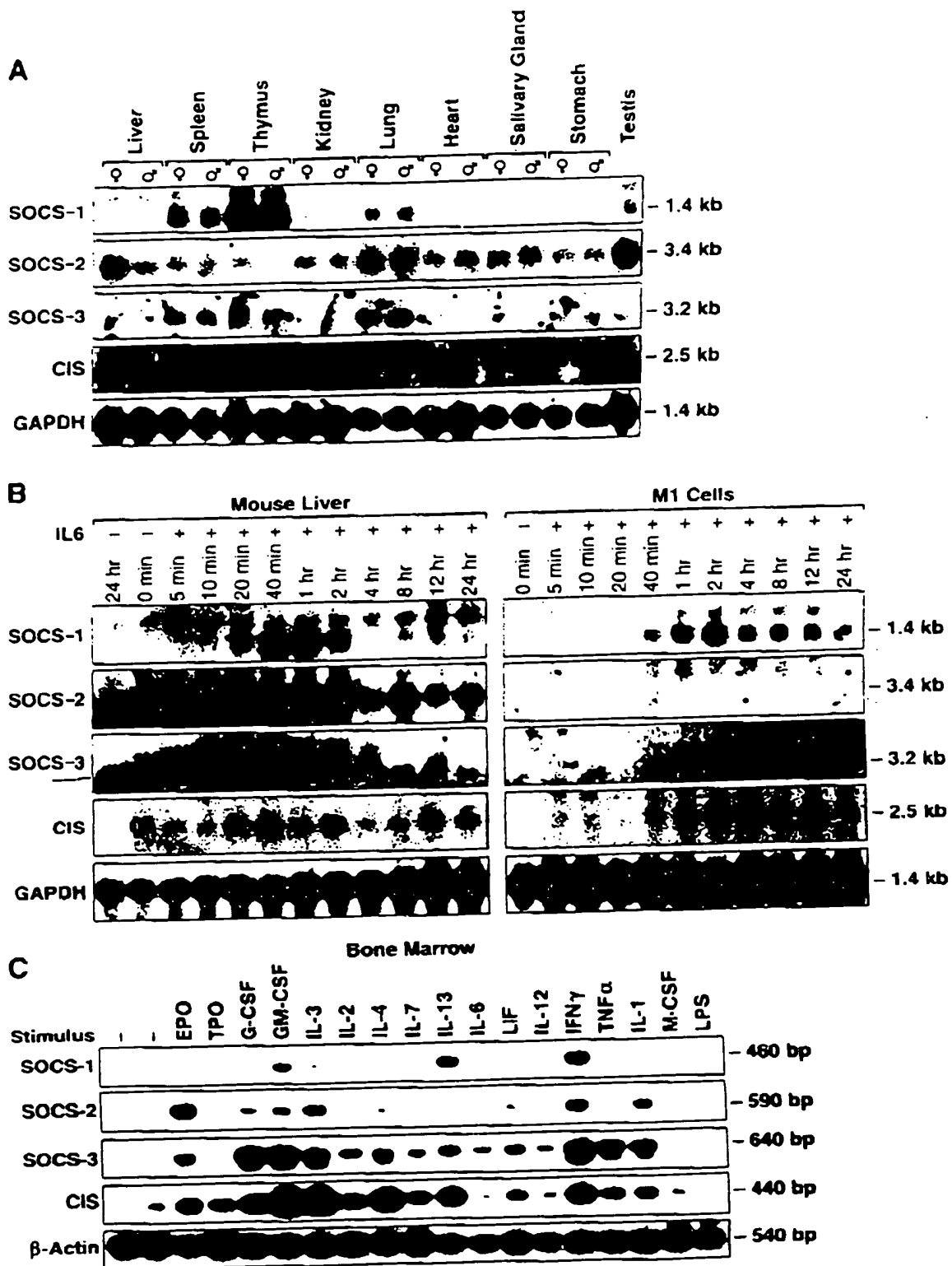


FIGURE 12

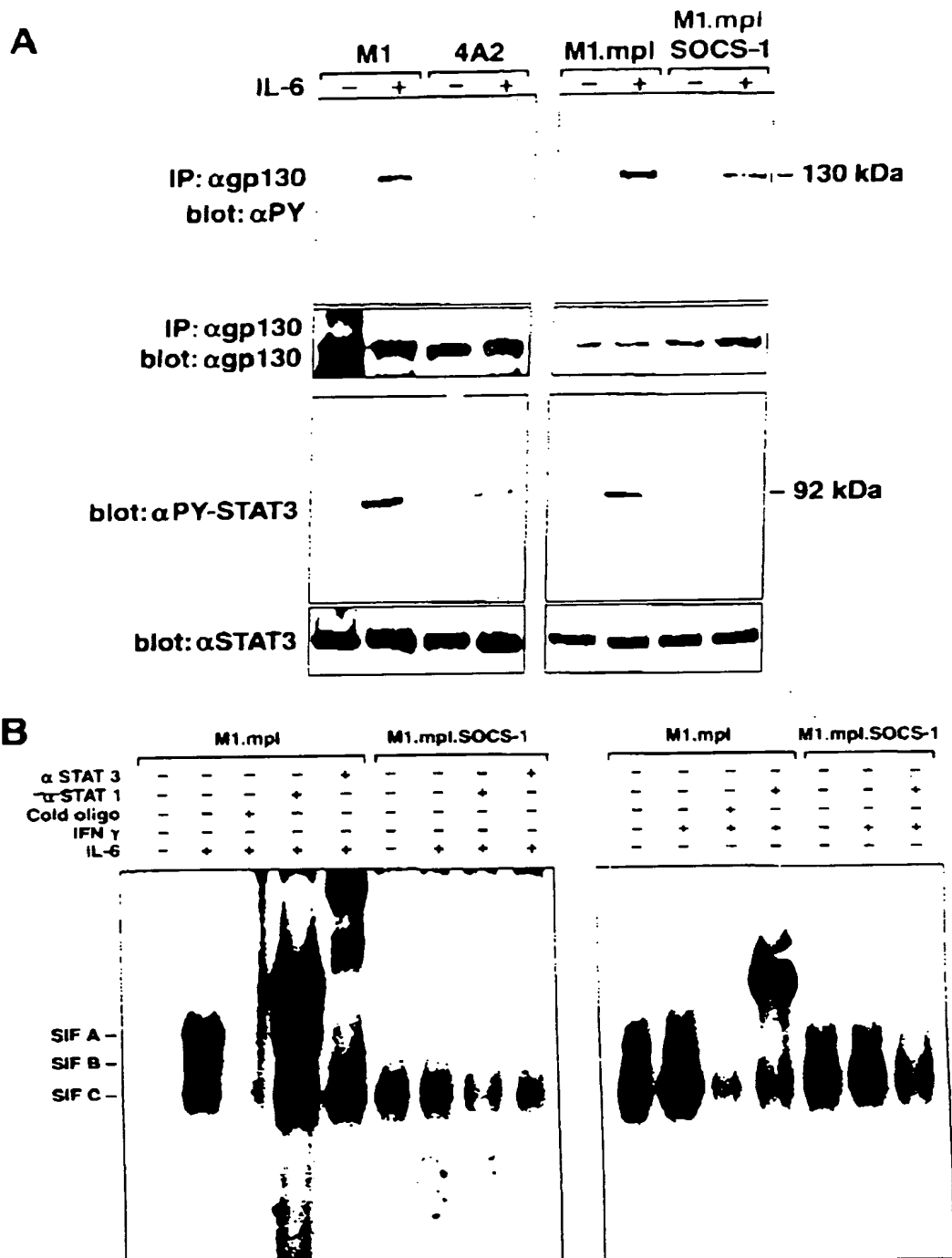


Figure 13

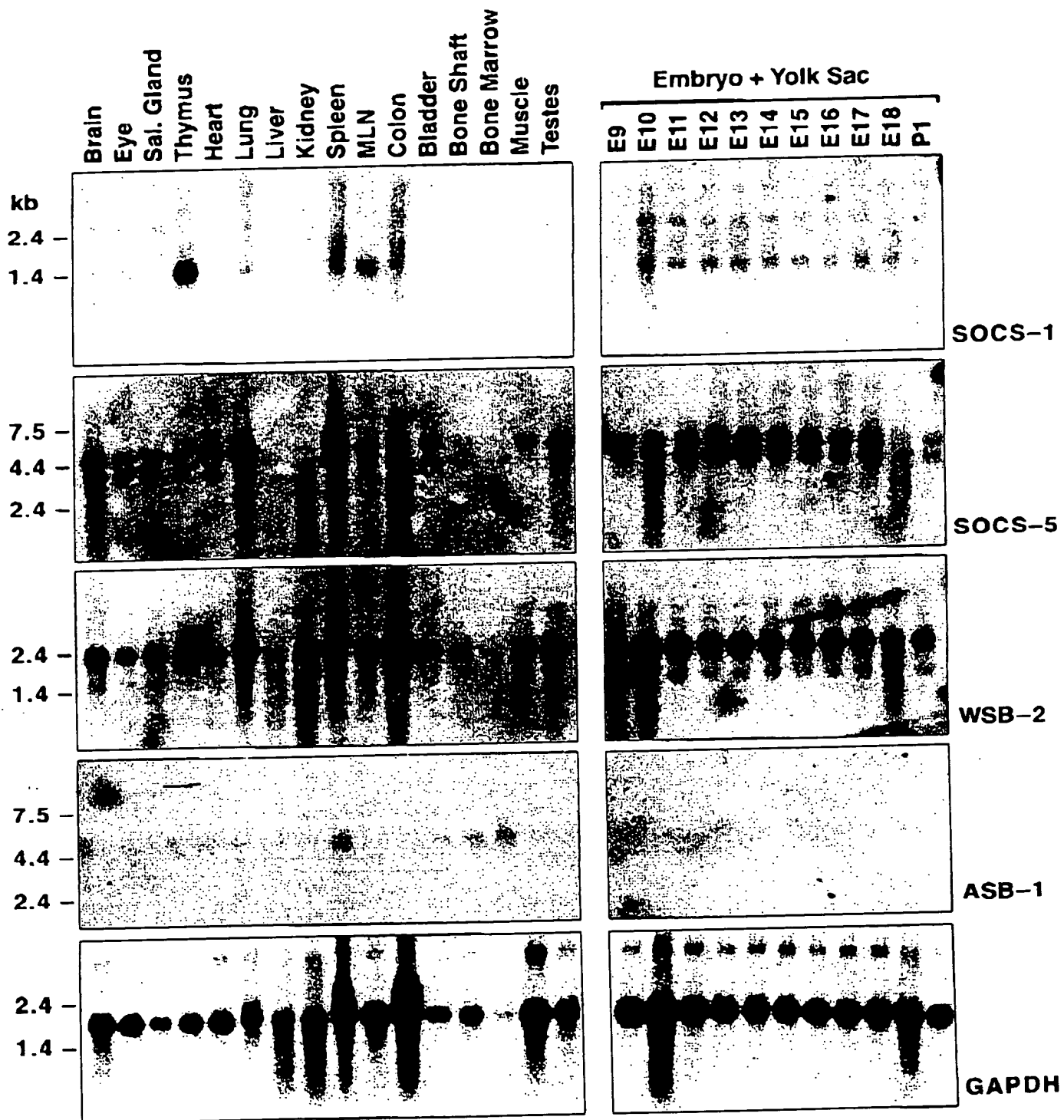


FIGURE 14A

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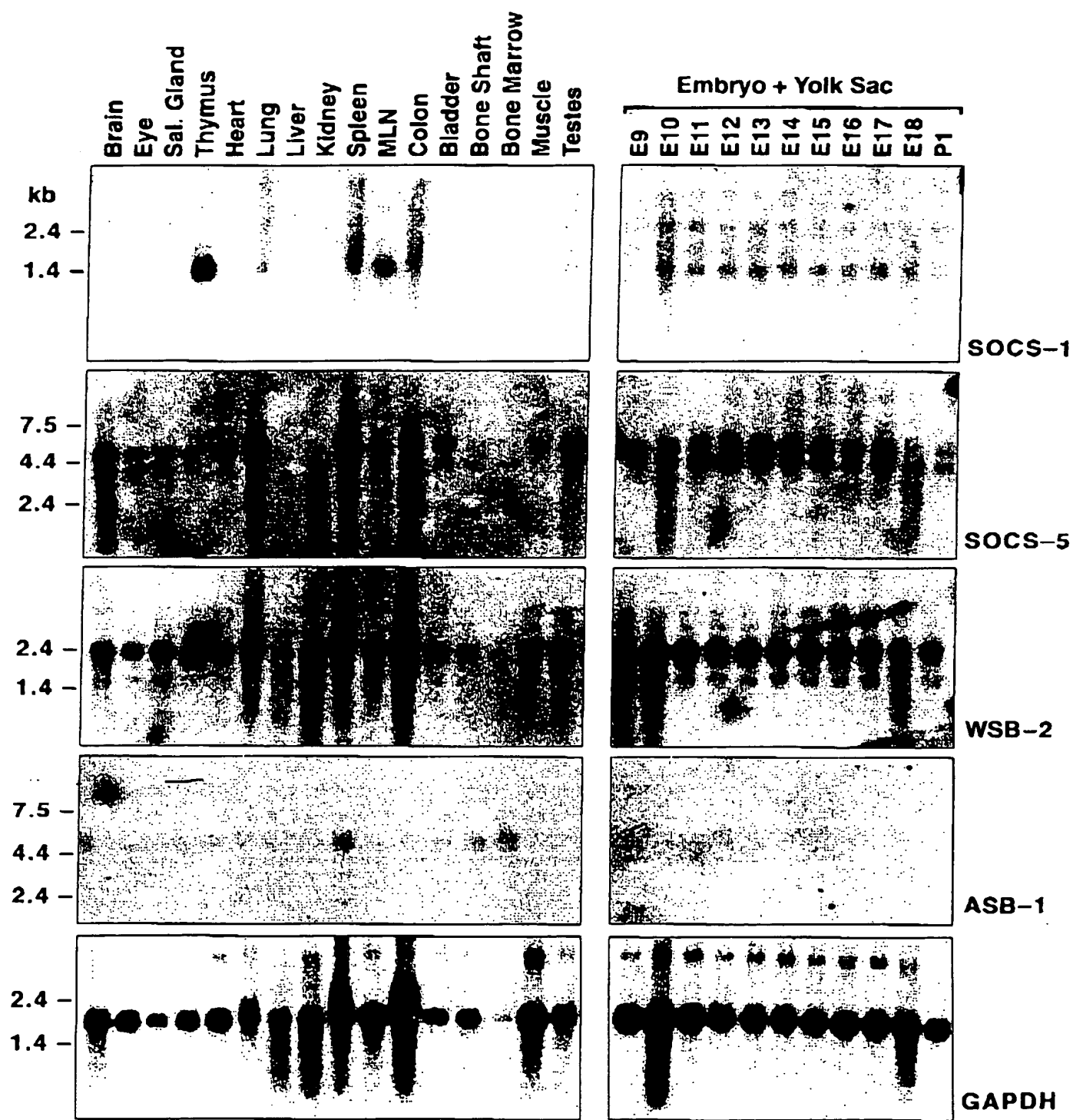


FIGURE 14B

FIGURE 15

cgaattccgggggggctgtgtgagtcgtgagtggaaggcgccggctcttttgtctgagtgtagcccggtggctttgtt  
ccaggcattccggtgatttcctccgggcagtcgcgagaagccgcagcgcccgcccgctctctctgcagtcctccacacc  
cgggagagcctgagcccgctcacgccccctcagcccccgctgagtcctctctctgttgcgcgtccgaatcgagttcccg  
gaatcagacggtgccccatagATGGCCAGCTTTCCCCGAGGGTTAACGAGAAAGAGATCGTGAGATCACGTACTATAGG  
GGAACCTTTGGCTCCAGCAGCTCCTTTTGACAAGAAATGTGGTGGTGAGAACTGGACGGTTGCTTTTGCTcCTGATGGTT  
CCTACTTTGCGTGGTCACAAGGATATCGCATAGTGAAGCTTGTCCCGTGGTCCCAGTGCCGTAAGAACTTTCTTTTGCAT  
GGTTCCAAAAATGTTACCAATTCAGCTGTCTAAAAATTGGCAAGACAAAAACAGTAATGGTGGTCAGAAAAACAAGCCTCC  
TGAGCACGTTATAGACTGTGGAGACATAGTCTGGAGTCTTGGCTTTTGGGTCTTCAGTTCCAGAAAAACAGAGTCGTTGCG  
TTAATATAGAATGGCATCGGTTCCGATTTGGACAGGATCAGCTACTCCTTGCCACAGGATTAAACAATGGTCGCATCAA  
ATCTGGGATGTATATACAGGAAAACCTCCTCCTTAATTTGGTAGACCACATTGAAATGGTTAGAGATTTAACTTTTGCTCC  
AGATGGGAGCTTACTCCTTGTATCAGCTTCAAGAGACAAAACCTAAGAGTGTGGGACCTGAAAGATGATGGAAACATGG  
TGAAAGTATTGCGGGCACATCAGAATTGGGTGtACAGTTGTGCATTcTCTCCcGACTGTTcTATGCTGTGTTCAGTgGGC  
GCCAGTAAAGCAGTTTTcCTTTGGAATATGGATAAAATACACCATGATTAGGAAGctGGAAGGTATCACCATGATGTTGT  
AGCTTGTGACTTTTCTCCTGATGGAGCATTGCTAGCTACTGCATCCTATGACACTCGTGTGTATGTCTGGGATCCACACA  
ATGGAGACCTTCTGATGGAGTTTGGGCACCTGTTTCCCTCGCCCACTCCAATATTTGCTGGAGGAGCAATGACCGATGG  
GTGAGAGCTGTGTCTTTCACTCATGATGGACTGCATGTTGCCAGCCTTGCTGATGATAAAATGGTGAGGTTCTGGAGAAT  
CGATGAGGATTGTCCGGTACAAGTTGCACCTTTGAGCAATGGTCTTTGCTGTGCCTTTTCTACTGATGGCAGTGTTTTAG  
CTGCTGGGACACATGATGGAAGTGTGTATTTTTGGGCCACTCCAAGGCAAGTCCCTAGCCTTCAACATATATGTCGCATG  
TCAATCCGAAGAGTGATGTCCACCCAAGAAGTCCAAAAACTGCCTGTTCTTCCAAAAATATTGGCGTTTCTCTCCTACCG  
CGGTTAGactgaagactgcctttcctggtaggcctgccagacagagcgccctttacaagacacacctcaagctttacctc  
gtgccgaatt

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FIGURE 16

MASFPPRVNEKEIVRSRTIGELLAPAAPFDKKCGGENWTVAFAPDGSYFAWSQGYRIVKLVPWSQCRKNFLLHGSKNVTN  
SSCLKLARQNSNGGQKNKPPEVIDCGDIVWSLAFGSSVPEKQSRCVNIWEHRFRFGQDQLLATGLNNGRIKIWDVYTG  
KLLNLVDHIEMVRDLTFAPDGSLLLVSASRDKTLRVWDLKDDGNMVKVLRABQNWVYSCAFSPDCSMLCSVGASKAVFL  
WNMDKYTMIRKLEGGHHHDVVACDFSPDGALLATASYDTRVYVWDPHNGDLLMEFGHLFPSPPTPIFAGGANDRWVRAVSFS  
BDGLEVASLADDKMVRFWRIDEDCPVQVAPLSNGLCCAFSTDGSLAAGTHDGSVYFWATPROVPSLOHICRMSIRRVMS  
TOEVOKLPVPSKILAFLSYRG\*

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SOCs4

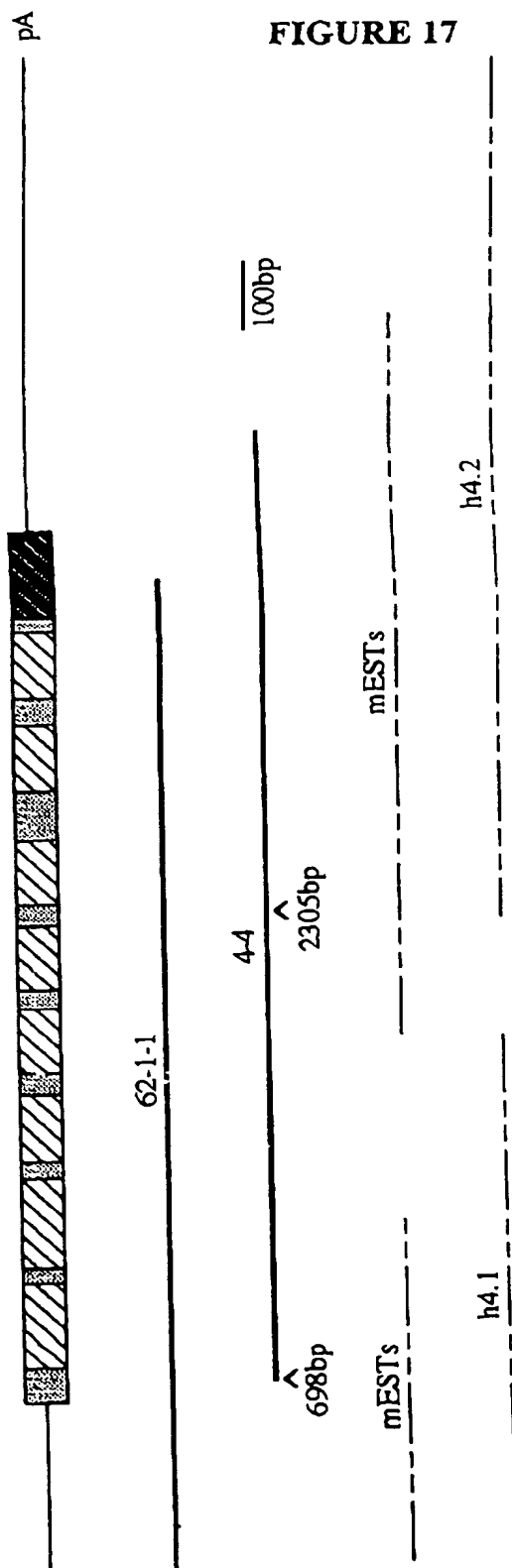


FIGURE 17

FIGURE 18

h4.1

CTGTCTTCCTCCGCAGCGCGAGGCTGGGTACAGGGTCTATTGTCTGTGGTTGACTCCGTACTTTGGTCTGAGGCCTTCGG  
GAGCTTTCCCGAGGCAGTTAGCAGAAGCCGAGCGACCGCCCCCGCCGTCTCCTCTGTCCCTGGGCCCCGGGAGACAAAC  
TTGGCGTACGCCCTCAGCGGTGCGCACTCTCTTCTCTGTGTTGGGTCCGCATCGTATTCCCGGAATCAGACGGTGCCC  
CATAGATGGCCAGCTTTCCCCGAGGGTCAACGAGAAAGAGATCGTGAGATCACGTACTATAGGTGAACCTTTAGCTCCT  
GCAGCTCCTTTTGACAAGAAATGTGGTCTGTGAAAATTGGACTGTTGCTTTTGCTCCAGATGGTTCATACTTTGCTTGGTC  
ACAAGGACATCGCACAGTAAAGCTTGTTCCGTGGTCCAGTGCCTTCAGAACTTTCTCTTGCATGGCACCAGAATGTTA  
CCAATTCAAGCAGTTTAAAGATTGCCAAGACAAAATAGTGATGGTGGTCAGAAAAATAAGCCTCGTGACATATTATAGACT  
GTGGAGATATAGTCTGGAGTCTTGCTTTTGGGTCTCAGTTCCAGAAAAACAGAGTCGCTGTGTAATATAGAATGGCAT  
CGCTTCAGATTTGGACAAGATCAGCTACTTCTTGCTACAGGGTTGAACAATGGGCGTATCAAAATATGGGATGTATATMC  
AGGAAACTCCTCCTTAACTTGGTAGATCATACTGAAGTGGTCAGAGATTTAACTTTTGCTCCAG

h4.2

CTCTGTATGTCTGAATGAAGCTATAACATTTGCCTTTTTATTGCAGGTTTTCTTTTGAATATGGATAAAATACCCATGA  
TACGGAAACTAGAAGGACATCACCATGATGTGGTAGCTTGTGACTTTTCTCCTGATGGAGCATTACTGGCTACTGCATCT  
TATGATACTCGAGTATATATCTGGGATCCACATAATGGAGACATTCTGATGGAATTTGGGCACCTGTTTCCCCACCTAC  
TCCAATATTTGCTGGAGGAGCAAATGACCGGTGGGTACGATCTGTATCTTTTAGCCATGATGGACTGCATGTTGCAAGCC  
TTGCTGATGATAAAATGGTGGAGTTCTGGAGAATTGATGAGGATTATCCAGTGCAAGTTGCACCTTTGAGCAATGGTCTT  
TGCTGTGCCTTCTCTACTGATGGCAGTGTTTTAGCTGCTGGGACACATGACGGAAGTGTGTATTTTGGGCCACTCCACG  
GCAGGTCCCTAGCCTGCAACATTTATGTGCGATGTCAATCCGAAGAGTGATGCCACCCAAGAAGTTCAGGAGCTGCCGA  
TTCCTTCCAAGCTTTTGGAGTTTCTCTCGTATCGTATTTAGAAGATTCTGCCTTCCCTAGTAGTAGGGACTGACAGAATA  
CACTTAACACAAACCTCAAGCTTTACTGACTTCAATTATCTGTTTTTAAAGACGTAGAAGATTTATTTAATTTGATATGT  
TCTTGTAAGTCAATTTTATGATCAGTTGAGCTTTTAAATATTTATTTATAGACAATAGAAGTATTTCTGAACATATCAAATAT  
AAATTTTTTTAAAGATCTAACTGTGAAAACATACATACCTGTACATATTTAGATATAAGCTGCTATATGTTGAATGGACC  
CTTTTGCTTTTCTGATTTTTAGTTCTGACATGTATATATTGCTTCAGTAGAGCCACAATATGTATCTTTGCTGTAAAGTG  
CAAGGAAATTTTAAATTTCTGGGACACTGAGTTAGATGGTAAATACTGACTTACGAAAGTTGAATTGGGTGAGCGGGCAA  
ATCACCTGAGGTGAGCAGTTTGAAGTACCTGGCAACATGATGAAACCTGTCTCTACTAAAAATACAAAAA  
AA

SOC5

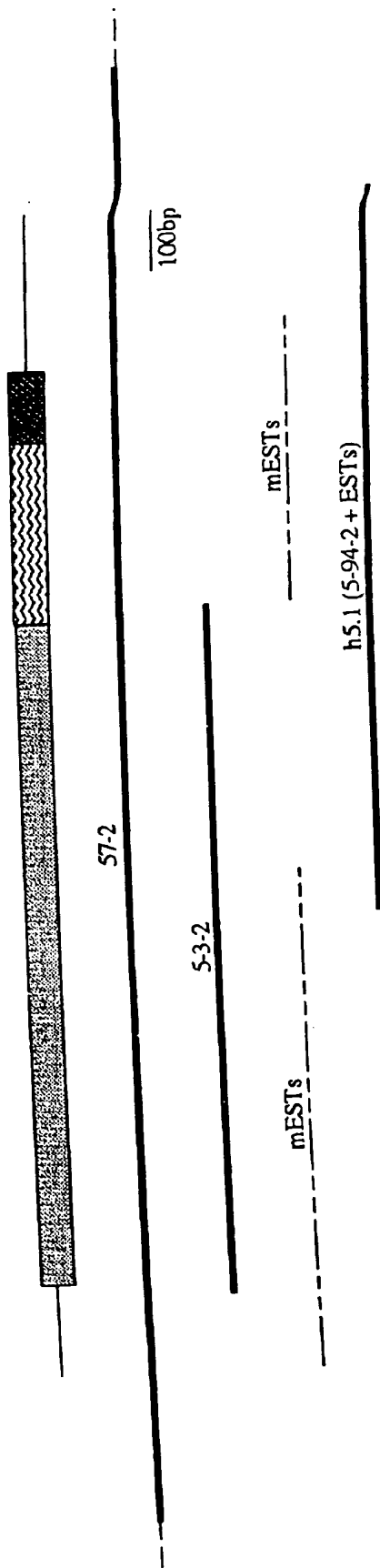


FIGURE 19

**FIGURE 20A**

cggcacgagccggggtccgctccggaggaagcgaggctgcgcgcgcggccggcaggagcgaggacggggamgcgcggggcc  
tctgcgctcgcctgtcgtgactgcgtgccccggcccatccttgctggccgcaggtgccctggatgaagccgcgcgcg  
cgtgtcccgggcgtgagtgtcccccggggtgcgcgcgcgcgcctcaagcggcgccctctccttccccgggtcccg  
ttttcccccgcgcactctcccggtgggcccctccgcacctggcgaggggcaagggccctcgggcgggtaggat  
cccgccgggaaggaagacaagccggggcggttagccctgcgcacggtgcgcgcgcgcgtagtgggagcttactcgcag  
taggetctcgtctcttataatcaatGGATAAAAGTGGGGAAAATGTGGAACAACCTAAAATACAGATGCCAGAATCTCTTCF  
GCCACGAGGACGAAGCGTAATGAGAACGTGGAGATGAACCCCAACAGATGTCGTCTGTCAAGAGCAAAAGCATAGT  
CTGGGAGAGGCACCTCCCCAGCAAGAGACGAGTCCTTAAAGAGAAATGTTGCCTTACAGCTGGGACTGAGCCCTTCCAA  
GACCTTTTCCAGCGCGAAACCAAACCTGTGCCGAGAGATCCCTCAAGTGGTTGAATCAGCATCGAGAAAGACAGTGACT  
CgGGTGCCACCCAGGAAAGAGGCTTGCACGGAGAGACTCCTACTCGCGGCACGCCTCGTGGGAGGAAAAGAAACAT  
TCCTGTTCACAAAGACCAGAGGTTCAATGGATACCGAGAAAAGTTTGGTAGAATCTCGAAGCGCGCTTCAGAGCGGAGA  
GGCGCGTATGCAGTCAGTCCATGCAAGACTGACAGCGTTTCTAGCGCGCGGTGCGGAGCCGCTCCCTGAGGCAGA  
GGCTCCAGGACCGGTGGGTTTGTGTTTTCCCATGAGAACTTACAGCAAGCAGTCBAAGCCACTCTTTTCCAATAAAAGA  
AAAATACATCTTCTGAATTAATGCTGGAGAAATGCCCTTTTCTGCTGGCTCGGATTGACACAAAGTGGCATTGTAT  
TAAACAGCATACCGCCCTTGTGAGCCCACTCAACATTTTTTGATACATTTGATCCTATCAGTGGTGTACAGAAATG  
AAGAAGATAGGCTTCGCAGAGAAAGACGGCTTAGTATCGAAGAAGGGGTGGATCccTCCCAACGCACAAATACACACC  
TTTGAAGCTACTGCA CAGGTCAACCCATTGTATAAGCTGGGACCAAAGTTAGCTCCTGGGATGACAGAGATAAGTGGAGA  
TGGTTCTGCAATTTCCACAAGCgAATTGTGACTCAGAAGAGATCAACCCACCTATGCTGCAGTCAGGAGGCAGAC  
AGCGCCAGGTGTCCGGGGACAGCCACGCGCAGTTAGACAGCAGGAGCTTGGAAAGTTCATACGCAGATCGATTACATA  
CACTGCCTCTGTGCCAGATTGCTTCAGATCACAGGGAATCCCTGTTACTGGGGCGTGATGGAACGATACGAGGCCGAGC  
CCTTCTAGAAGGGAAACCGGAAGGCACGTTCTTGCTCAGGGACTCTGCACAGGAGGACTACCTCTTCTGTGAGcTTCC  
GCCGCTACAA CAGGTCTCTGCACGCCCGGATCGAGCAGTGTGAACCAAACTTCAGTTCGATGCCCATGACCCCTGCTG  
TTTCACTCTCCACwGTACGGGGCTTCTGAACACTATAAGCACCAGCTCTGCATGTTTTTGAACCTTGTCTAATC  
GATATCACTGAATGAACCTTTCCCTTTCAGCCTCAGTATATCTGCCGCGCAGTGATCTGCAGATGCACTACGTATGATG  
GGATTGACGGGcTCCCGCTACCGTTCGATGTTACAGGATTTTTTAAAGAGTATCATTATAAACAAAAGTTAGGGTTCCG  
TGGTTAGAACCGAGarCCAGTCAAGACAAAGTATctcctgtccccaaagggcactaactaagtcgtctccctccgtgcac  
mjaactgcaccataggraggcagtcagctgtcaggatttccaccagcaagtggaagcttagctatagccttgccctat  
tggggtccgctgttccctcagacaaaagtgccctggagcagcaagatggcttgcaagtggttcgggtgggctgtgacaactga  
gggaggcaactctggggcatttgctatgaagaatttcttcttaccgaagaacaatttataatattggatgggtattt  
caatagtgtgactaatgtttgaattattttttaagaattttctataaccttcagaaaagtagtgatgtttgtagt  
tactataaatcaagctttgaaggttcaaaacaaacagtgtaaatataaagactaccttctcttttagagaaaacaaatgcac  
gttttccccagccacaggcattgtgcactgttaattgntgctgttatcagctcctttctcctcc

FIGURE 20B

MDKVGKMWNNLKYRCQNLFSHEGGSRNENVMNPNRCPVKEKSISLGEAAPQQESSPLRENVALLGLSPSKTFSRRNQ  
NCAAEIPQVVEISIEKSDSGATPGTRLARRDSYSRHAPWGGKKKHSCSTKTQSSLDTEKKFGRTRSGLQRRERRYGVSS  
MQDMDSVSSRAVGSRLRQLQDTVGLCFPMRTYSKQSKPLFSNKRKIHLSELMLEKCPFPAGSDLAQKWELIKQHTAPV  
SPHSTFFDTFDPSLVSTEEEDRLRERRRLSIEEGVDPFPNAQIHTFEATAQVNPLYKLGPKLAPGMTEISGDGSAIPQX  
NCDSEEDSTTLCLQSRQKQKQVSGDSEHVSRRQAWKVETQIDYIHLVDPDLLQITGNPCYWGVMDDRYEAEALLEGKPE  
GTFLLRDSAQEDYLFVSFRRYNRSLEHARIEQWNNFNFSFADPDPCVFHSSXVTGLLEHYKDPSSCMFFEPLLTISLNRTF  
PFSLOYICRAVICRCTTYDGIDGLPLPSMLQDFLKEYHYKQKVRVRWLERXPVKAK\*

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FIGURE 21

GATTAAACAGCATACAGCTCCTGTGAGCCACATTCAACATTTTTTGATACFTTTGATCCATCTTTGGTTTCTACAGAAG  
ATGAAGAAGATAGGCTTAGAGAGAGAAGGCGGCTTAGTATTGAAGAAGGGGTGATCCCCCTCCCAATGCACAAATACAT  
ACATTTGAAGCTACTGCACAGGTTAATCCATTATWTAAACTGGGACCAAATAGCTCCTGGAATGACTGAAATAAGTGG  
GGACAGTTCTGCAATTCACAAAGCTAATTGTGACTCGGAAGAGGATACAACCACCCTGTGYTTGCAGTCACGGAGGCAGA  
AGCAGCGTCAGATATCTGGAGACAGCCATACCCATGTTAGCAGACAGGGAGCTTGAAAAGTCCACACACAGATTGATTAC  
ATACACTGCTTCGTGCCTGATTTGCTTCAAATTACAGGGAATCCCTGTTACTGGGGAGTGATGGACCGTTATGAAGCAGA  
AGCCCTTCTCGAAGGGAAACCTGAAGGCACGTTTTTGCTCAGGGACTCTGCGCAAGAGGACTACTTCTTCTCTGTGAGCT  
TCCGCCGATACAACAGATCCCTGCATGCCCGAATTGAGCAGTGGAATCACAACTTTAGTTTCGACGCCCATGACCCGTGT  
GTATTTCACTCCTCCACTGTAACGGGACTTTTAGAACATTATAAAGATCCCAGTTCGTGCATGTTTTTTGAACCATTGCT  
TACTATATCACTAAATAGGACTTTCCCTTTTAGCCTGCAGTATATCTgTcGCGCGGTAATCTGCAGGTGCACTACGTATG  
ATGGAATTGATGGGCTCCCTCTACCCTCAATGTTACAGGATTTTTTAAAAGAGTATCATTATAAACAAAAAGTTAGAGTT  
CGCTGGTTGGaACGAGAACCAGTCAAGGCAAAGTAACTCTCCGGTCCCCAAAGGgTGTTAACTAGGTCCGCTTTCATGT  
GCATCAGACAGTACACCTATAGCAAGCACACGTAGCAGTGTTAGGCTTTTTTCATACAGTATGTAAGcTTAGTGTTAGTAT  
CTGTCAGatGCTACCTGCTGTTACTTATTGAGATAAACATGGtGCCTATTGGAACAATAGcGGATAGAGCTACAGGTGTT  
CAGTAAGACTACAAAAACATTTTGCCTATTTGCTAACAGTTTGGTTTTTAATGGCTGTGGtATTTGAGTGAGGCAACTC  
TGGGGCATTGTGTATGAAGAAATG

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# SOCS6

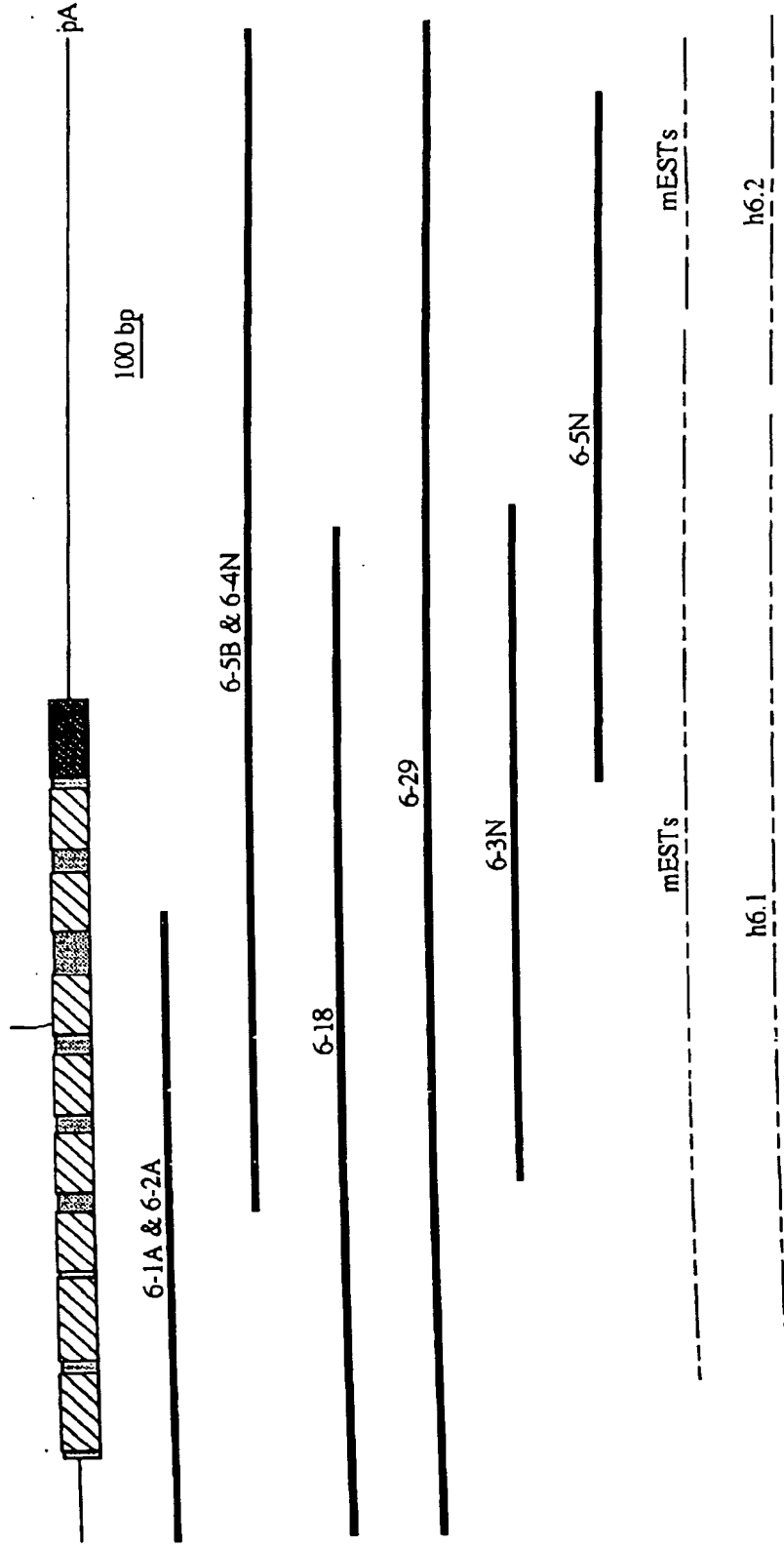


FIGURE 22

**SECRET**

FIGURE 23B

MEAGEEPLLLAELKPGRPHQFDWKSSCETWSVAFSPDGSWFANSQGHCVVKLVFWPLEEQFIPKGFCAKSRSSKNOPKGRG  
SLKEKTLDCGQIVWGLAFSPWPSPPSRKLWARHHPQAPDVSLILATGLNDGQIRIWEVQTGLLLLNLSGHQDVVRDLSFT  
PSGSLILVSASRDKTLRIWDLNKHGKQIQVLSGHLQWVYCCSISPDCSMLCSAAGEKSVFLWSMRSYTLIRKLEGEHQSSV  
SCDFSPDSALLVTASYDTSVIMWDPYTGARLRSLHHTQLEPTMDDSDVHMSSLRSVCFSPGGLYLATVADDRLLRIWALEL  
KAPVAFAPMTNGLCCTFFPEGGIATGTRDGEVQFWTAPRVLSSLKHLCKALRSFLTYYOVLALPIPKKMKFLTYRTF\*

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FIGURE 24

h6.1

GACACTGCATCGTCAAACCTGATCCCCTGGCCGTTGGAGGAGCAGTTCATCCCTAAAGGGTTTGAAGCCAAAAGCCGAAGTA  
GCAAAAATGAGACGAAAGGGCGGGGCAGCCAAAAGAGAAGACGCTGGACTGTGGTCAGATTGTCTGGGGGCTGGCCTTCA  
GCCTGTGNCTTTCCCCACCCAGCAGGAAGCTCTGGGCACGCCACCACCCCCAAGTGCCCCGATGTCTCTTGCTGGTCTTG  
CTACGGGACTCAACGATGGGCAGATCAAGATCTGGGAGGTGCAGACAGGGCTCCTGCTTTTGAATCTTTCCGGCCACCAAG  
ATGTCGTGAGAGATCTGAGCTTCACACCCAGTGGCAGTTTGATTTTGGTCTCCGCGTCACGGGATAAGACTCTTCGCATCT  
GGGACCTGAATAAACACGGTAAACAGATTCAAAGTGTATCGGGCCACCTGCAGTGGGTTTACTGCTGTTCCATCTCCCCAG  
ACTGCAGCATGCTGTGCTCTGCAGCTGGAGAGAAGTCGGTCTTTCTATGGAGCATGAGGTCTTACACGTTAATTTCGGAAGC  
TAGAGGGCCATCAAAGCAGTGTTGTCTCTTGTGACTTCTCCCCCGACTCTGCCCTGCTTGTACGGCTTCTTACGATACCA  
ATGTGATTATGTGGGACCCCTACACCGGCGAAAGGCTGAGGTCACTCCACCACACCCAGGTTGACCCCGCCATGGATGACA  
GTGACGTCCACATTAGCTCACTGAGATCTGTGTGCTTCTCTCCAGAAGGCTTGTACCTTGCCACGGTGGCAGATGACAGAC  
TCCTCAGGATCTGGGCCCCTGGAACCTGAAACCTCCCATTGCATTTGCTCCTATGACCAATGGGCTTTGCTGGCAGATTTTTT  
CCACATGGTGGAGTCATTGCCACAGGGACAAGAGATGGCCACGTCCAGTTCTGGACAGCTCCTAGGGTCTGTCTCTCACTG  
AAGCACTTATGCCGGAAGCCCTTCGAAGTTTCTTAACAACCTTACCAAGTCTTAGCACTGCCAATCCCCAAGAAAATGAAA  
GAGTTCTCACATACAGGACTTTTTAAGCAACACCAATCTTGTGCTTCTTTGTAGCAGGGTAAATCGTCTGTCAAAGGG  
AGTTGCTGGAATAATGGGCCAAACATCTGGTCTTGCAATTGAAATAGCATTCTTTGGGATTGTGAATAGAATGTAGCAAAA  
CCGATTCCAGTGTACTAGTCATGGATTTTTC

h6.2

ACCATGGTTCCAAGWTCCTCTCCYKCTGTGGTCTMRAAGTTGCIYCCGAATGTTGGGCCCAAGTGCCCTTTTCYCTCCTTGG  
GCCTCCCCTTCTGACCTGCAGGACAGTTTTCCYGGAGCCCATTTGGTATGAGGTATTAAWTTAGCCTTAATAAATTACAG  
GGGACTCAGAGGCCGTGCTCCTGACCGATCCAGACACTATTTTTTTTTTTTTTTTTTAACAATGGTGTGCATGTGCAGGAA  
ATGACAAATTTGTATGTCAGATTATACAAGGATGTATTCTTAAACCGCATGACTATTAGATGGCTACTGAGTTATCAGTG  
GCCATTTATTAGCATCATATTTATTTGTATTTCTCAACAGATGTTAAGGTACAACCTGTGTTTTCTCGATTATCTAAAA  
CCATAGTACTTAAATTGAAAAA

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# SOCS-7

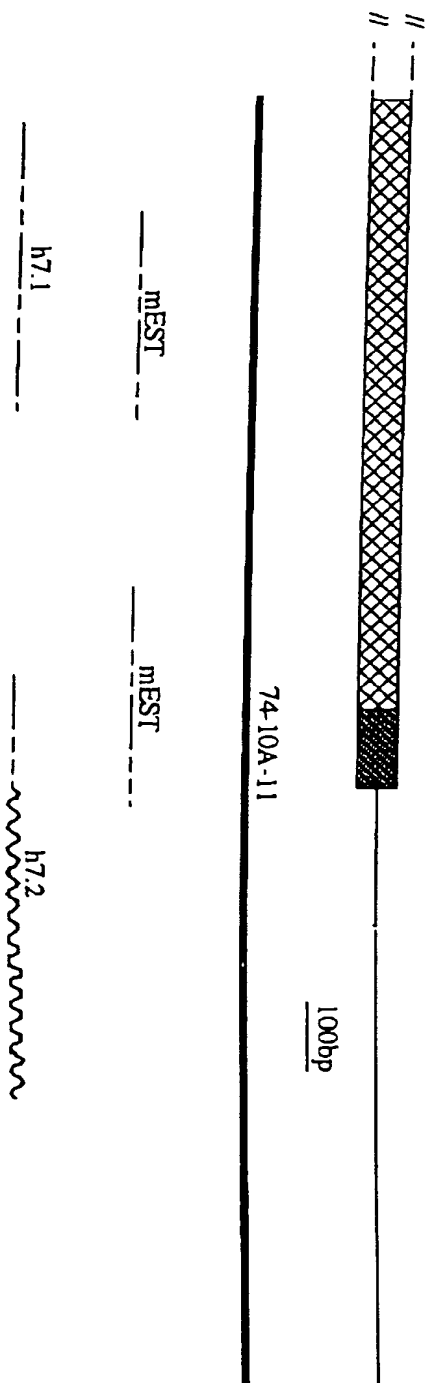


FIGURE 25

FIGURE 26A

GGCACGAGGGCGGGTCAAGGCGGAGGCTGAGGACCAAGTAGGCATGGCGGAGGGCGGGACCGGCCCCGATGGACGGGCCG  
GCCCGGGACCCGAGGTCTAATCTGAAGGAGTGGCTGAGGGAGCAGTTCTGTGACCATCCACTGGAGCACTGTGACGAT  
ACAAGACTCCATGATGCAGCCTATGTAGGGGACCTCCAGACCCCTCAGGAACCTACTGCAAGAGGAGAGCTACCGGAGCCG  
CATCAATGAGAAGTCTGTCTGGTGTGCGGCTGGCTTCCCTGCACACCACTGAGGATCGCAGCCACTGCAGGCCATGGGA  
ACTGTGTGGACTTCCTCATACGCAAAGGGGCCGAGGTGGACCTGGTGGATGTCAAGGGGCAGACTGCCCTGTATGTGGCT  
GTAGTGAACGGGCACTTGGAGAGCACTGAGATCCTTTTGGAGGCTGGTGTGATCCCAACGGCAGCCGGCACCACCGCAG  
CACTCCTGTGTACCATGCCTYTCTGTGGGTAGGGACGACATCCTGAAGGCTCTTATCAGGTATGGGGCAGATGTTGATG  
TCAACCATCATCTGAATTCTGACACCCGGCCCCCTTTTTCACGGCGGGCTAACCTCCTTGGTGGTCTGTCTCTATACATC  
AGTGCTGCCTACCATAACCTTCAGTGCTTCAGGCTGCTCTTGAGGCTGGGGCAAATCCTGACTTCAATTGCAATGGCCC  
TGTCAACACCCAGGAGTTCTACAGGGGATCCCCCTGGGTGTGTCTATGGATGCTGTCTGCGCCATGGCTGTGAAGCAGCCT  
TCGTGAGTCTGTTGGTAGAGTTTGGAGCCAACCTGAACCTGGTGAAGTGGGAATCCCTGGGCCCCAGAGGCAAGAGGCAGA  
AGAAAGATGGATCCTGAGGCCTTGCAGGTCTTTAAAGAGGCCAGAAAGTATCCCAGGACCTTGCTGAGTTTGTGCCGGGT  
GGCTGTGAGAAGAGCTCTTGGCAAATACCGACTGCATCTGGTTCCCTCGCTGCCGCTGCCAGACCCCATAAAGAAGTTT  
TGCTTTATGAGTAGcattcacatgcagtgcctgactgcaatgtggaagccgatcacctgcagtgaactgacacagactc  
tggcatcctgggaaccatggcctgtgctgccagcttgatccttggctgctcagtgaagaaaaacggctgtgttctcttgg  
actgtgattctatctcaggtgcttgggccatcgaaacgctccttgagtcattgtcaactgagaggcacatacaaaactta  
tttgttctcttcagtctctctgttttggattcttcttggcaatgtgtgcagcatgggctgagcctgggtgattgccctag  
tggggaaggcttttttctccaggctatgcatctatttatgttctctactttgcaatttatgttcttttaaggcttgat  
caaaacagaaagaggtttgttaagaaaagatatagggagaaaggaattccggttccgtgcacttgctagcctgcttct  
tgcttgggtttgtctgtctatgctgcctgggtgcacatcccttctcttgcctgactgttctattttgggagttgtctt  
cgtctaagatggcttctgggttctatcttattgcacagaggtcccagaacagtggtcatagggcaccatctgctctgcc  
aagggttttctgatgtcttaccctggggatcttcagacagtggttaccttttaggagaccacctggaactaaccattaag  
tgactgccacattcagatcagggaccatcttaatagtactcactgccagtcctcacaagagaagatgacacgggtgctc  
tcttcagacactcccataggaagttggaatgtcttggtcacctgggtgttcccaggctacaacttcttgggtgtt  
cactaagaccagratatcctagttttttgggttgactgttccctccccacttctcttgaancccaatgcccntttgtktn  
ggttgcctccctaaaakt

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FIGURE 26B

.....ARGGVRAEAEQVGMAEGGTGPDGRAGPGPAGPNLKEWLREQFCDHPLEHCDDTRLHDAAYVGDQLTLRNLLQEE SY  
RSRINEKSVWCCGWLPCTPLRIAATAGBGNCVDFLIRKGAEVDLVDVKGQTALYYAVVNGHLESTEILLEAGADPNGBRHH  
RSTPVYHAXRVGRDDILKALIRYGADVVDVNBELNSDTRPPFSRRLTSLVVCPLYISAAYHNLCFRLLLQAGANPDFNCNG  
PVNTQEFYRGSPGCVMDAVLRHGCEAAVSVLLVEFGANLNLVKWESLGPEARGRKMDPEALQVFKEARSIPRTLLSLCRV  
AVRRALGKYRLHLVPSLPLPDFIKKFLLYE\*

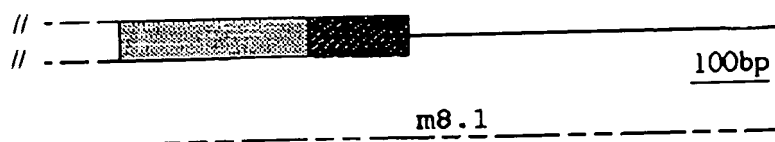
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h7.1  
GCATCCATGGCGGAGGGCGGCAGCACGACGGGCGGGCAAGGCCGGGCTCCGACAGGTCGTAACTCGAAGGAGTGGCTGAGG  
GAGCAATTTTGTGATCATCCGCTGGAGCACTGTGAGGACACGAGGCTCCATGATGCAGCTTACGTGCGGGACCTCCAGAC  
CCTCAGGAGCCTATTGCAAGAGGAGAGCTACCGGAGCCGCATCAACGAGAAGTCTGTCTGGTGCTGTGGCTGGCTCCCCT  
GCACACCGTTGCGAATCGCGGCCACTGCAGGCCATGGGAGCTGTGTGGACTTCCTCATCCGGAAGGGGGCCGAGGTGGAT  
CTGGTGGACGTAAAAGGACAGACGGCCCTGTATGTGGCTGTGGTGAACGGGCACCTAGAGAGTACCCAGATCCTTCTCGA  
AGCTGGCGCGGACCCCCAAC

7.2  
GAGGAAGAAGAAAAGTGGACCTGAGGCCTTGCAAGTCTTTAAAGAGGCCAGAAGTGTTCCCAAGAACCTTGCTGTGTCTG  
TGCCGTGTGGCTGTGAGAAGAGCTCTTGGCAAAACCGGCTTCATCTGATTCTTTCGCTGCCTCTGCCAGACCCATAAA  
GAAGTTTCTACTCCATGAGTAGACTCCAAGTGTCTGCGTTGATTCAGCTGAGGGAGAAGTGATCTGCAGGGGAGGTGGAC  
ACCGAGCCCTGAGTGCTGTGCTGTGCTGCTCTCTGATGGCTGTTGCTGCAGAAGATGTCTCGTAGACTGTTCATTGGCT  
CCTCAGGTGCCCTGGGCGCTGAAACAGTCTCTGGGTCAATTGTGAGCTGAGAGGCTTATACTAAAGTTATTATTGTTTTTCC  
CAAGTTCTCTGTCTCGAATTTTCAGTGTCATATTAAATGTAACGGGCCATGGGGTATGTACATGTAGGGGGCTGAGGTTGGA  
GGCCTACTAATTTCTGTAGGGGAAGACTCCAGCAGCTCTGGAACGTGTGCTTCTCTTATTTTTTCTACTTCTCAATTGA  
TGGTTCGATTAAAGCCTTCTAGTATCTCAATGAAA

FIGURE 28



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FIGURE 29A

CTGATGTCCGCAATTCTGAAGGTTGGACACCACTGCTGGCTGCCTGTGACATCCGCTGTCAATCCCCAAAGGATGCTGAG  
GCCACCACCAACCGCTGTTTTCAACTGTGCCGCTTGCTGCTGTCTGTGGGGGCAGATGCTGATGAATACATACCGTGTAG  
TTCAGCTTCCTGAGGAGGCCAAGGgCTTGGTGCCACCAGAGATTCTACAGAAGTACCATGGATTCTACTCTTCCCTCTTT  
GCCTTGGTGAGGCAGCCCAAGGTCGCTGCAGCATCTCTGCCGTTGTGCGCTCCGCAGTCACCTGGAGGGCTGTCTGCCCA  
TGCACTACCGCGCCTTCCCCTGCCACCGCGCATGCTCCGCTTTCTGCAGCTGGACTTTGAGGATCTGCTCTACTAGgctt  
gctgccctgtgaacaaagcagacccccacccccaccccaagggcattctctcagcaatgaatgatgcaaggcggctctgtctt  
caagtcaggagtggacgccttgatccacacttgagagaagaggccagatcagcaccyggctggtagtgatngcagagggc  
acctgtgcagatctgtgtgcgcactggaaatctctaggctgaaggcyagagcaaagtgtgcargtggttagtccttgggan  
gagagacaganggtgagaaagcaagacagaggtgagagtgcacatgtcaagtggtagattgccttaaaagaaagctaaaa  
aaagaaaaagattcggggcgaacttcttttaggggtaatgctgcagcgtgttaactgactgaccagcgtccatatctttgg  
acccttcccgggtgaaaaagcccccttcacctccagcgtccccaagggtgcttagcaataccgggtgcttttctgccgc  
aaagtgagttaccaa

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## FIGURE 29B

....MSAILKVGHECWLPVTSAVNPQMLRPPPTAVFNCAACCCLWGQMLMNTYRVVOLPEEAKGLVPPEILQKYHGFYS  
SLFALVRQPRSLQHLRCALRSHLEGCLPHALPRLPLPPRMLRFLQLD FEDLLY\*

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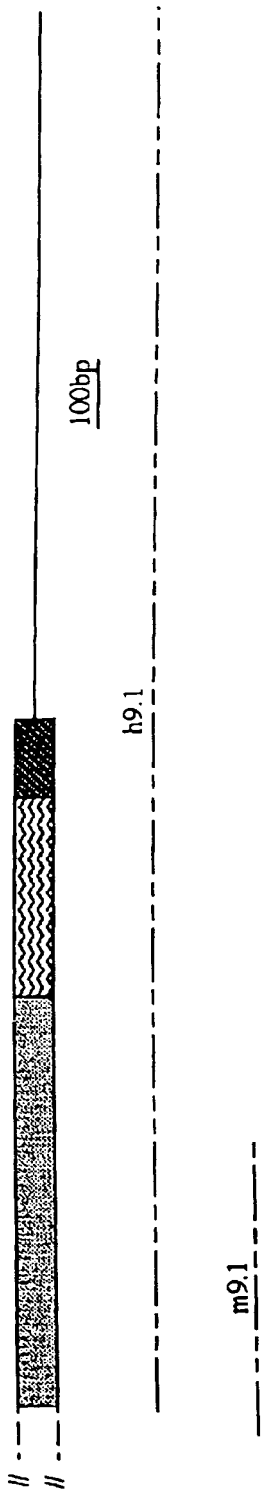


FIGURE 30

**FIGURE 31**

GTGGGGGCGTCATCATGACCTCCTCTAGGGCTCTGCAACATGACTCCTGTGGTGCAAATCAACAAATTGTTCACTGATGA  
ATCCACAAGGATCTCTGGGCCTACAACCAGGTCTTGGTCCACATGACTGTCGTCTTCGGAGAAGGCACCACTCGCCCCCG  
GCAGGTACGGCTGACACCTCCATGGGAGAAGACGTATCCAGGCAGCAGCTGCGCGGCCCTTCAAGAGGGCACATCCCGTC  
ATCTAAAGGCACGGTGTACTGAAGGTAGTCCTGAGACATGAGTCCGATTACTACAGGCACGTGTTCCCTCCAGGTGGAGGC  
TCAGGTCCCCGGGTGAGCTGGGGCTGCAGCGGGACTCAGGGCGCGGCTCTGGCTGCAGGTCTCGCAGCTCCCTGGGCTGT  
AGCTCCCGCAGATCCTTGCGCACACCCTTGACTGGT

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FIGURE 32

TTAATAGTACCTACATAGTAGAAAATTATAACTCCACTTTAAAACAATGTTTTCTTCTATTCAAATCAATTTAAAACCTT  
TTATAAACATTAATGTTGCAAGAGAATCCAGTCCATTTATGAAAATTAGTTGACAATCAAGTTCACCCAAGAAAATGTTGA  
CTAAGCTAAAAGAAATCACAGATAAAACATTTTACCAAAAGGATAGGTAAACACAAAAAAATGCTATCACAGGAAGCTNAT  
GATCATCTAATATTTCTTTAATAATAATTCTAGTTCATAGGTTTTTCATGTTATGCCAATTTGTACCCGAGTTTAATTACA  
GAAAAGGCAACAATTTCTAAATTTGGTGGTATACATTTCTTTACAATTTTTTAATGTAAGGCCATTTATTAAAATAGACAAA  
CTAGAAGATGAAAACGAAGGCAACAGAAAAATTCAACTTTTCAACCAAAAGAATTAGCACAACTTAGAAATAATTTAG  
AAAAAGTGTTGTTAAAAGATATGTTGCAGATCTCCGTTCCTTACCCAAGATTATGTCAATTCACGATTCTAAATAAATC  
TTTTTAAAGTAAGAGATTAAAAACTCATCTTCAGTGTATATGTAAATTCCGTGGTTTTATCACACAGGTATGTTTTATTCAA  
CACTGKCTTTGGAAANTGGACCATTAAAAGGACATGGCAATTTCCATTCTGTAAAGTTTCATTCAACCTTTACTTAGGGG  
TTGRATTACCACATGAAATGNTGCTTTTAATGCATAAAAAATCACAGTGGATTAGCCAGCAAAAGGGACTGGCGGGGGGGG  
CATTGAGGAGAATTTGATAATTCACATTGTGATTATTCTGCACATTGATGAAACATAATTCAACCTCTAAAACCTCAAGA  
CTTCCCTTTTTTAAAGAACCAAAATAAAACCAAGACACCTTGCTGACACTTCCCACCCCTAAACAAACTGATGACTCTTT  
TACACATAAAACTGAAATAGTTATGGCAGCAAAAGATTTTGATGGCAATGAAAGTTGTAAACTGTATTTCAATCTCTTGT  
TCTTATTTCCCAAAGTGCAAGATGCAGGGTTCTCAATCTTTCAGTAGTGCTTCTCCTGTAAATAATCCTTCATTTGTTTGG  
CAAAGGCAGTTTCTGAATTAAGTCTATTCTGGTATACTGACGTATAACAAAACGACACAGGTAAGTCAACGAGCGCACCTS  
SATGAACNCCCGRGAACACTGGSTTGGYCAAGTTCNGACRGGKAAAGTGCATGATTCCAGGCAGCYGAGACCTTGAATAA  
CAAAAAGCTCCCATTTTCAGAGTCCCTGATTGAATGCTCCAATTAGATCAACTATGGACGTATGTCCTTCCACATCNGGCT  
GTTTATAAAAAGCTAAACCTACCATTTGAGTGCTCAATCTAGTGTGAAGTGTGTTTACCATGGGAGCGAAAGTCAAGCTTA  
AAAGGTAAACGGTCGTCAGAACTGTCCCGRACAAGAAAAGAACCATCTGGCACGTTTGCTAGCTTCCCTTCTGCCTCCCAAC  
GTGTGATTGGTCCCCAGTACCATCCTTGCTTTGCAAGTTTTTTCAGCTCCTCTGTAAGGCTTGTCAACCATGGGACCAC  
TACTTTGCACTGAGTCATAAACTCTTGCAACCCAGGAGCAGAGTTCGGATCAAAATTCAAATGACAGCGCATAACTTTNC  
AGCCACGTGGGGCTTCTGTSCCAGTGAGTCCACTGAAAGTTCCTTTTGGGATTTGGATTATTCCTGCATTGGAGNTAAC  
CAATGGTGAAGATTGGAGGGACATCCATCGTGAACCCGCTCTCCGGGGTCTGCAACATGACTCCCGTGGTGCCAATCAAC  
AAGCCATTACCCGGACTGATCCACGAAGATCTCTGGGGCGACAAGTGGTCTACCTGACTCTCATCCTCGGGGAA  
AGCGCGCCCTCCCACTTGAGGAGGAACCGCAGAGACTTCCATGGGAGAAGAGCTGTCCAGACAATAGCTCCGTGATCCTTC  
CAAAGGATACATCCCTCATCTAAAGGCACAGTATACTGAATGTAGTCTGAGGCATAAGTCCAATAACGACAGGCACATG  
TTCATCCAGGTGAAGATGCAGGTCTCCATTATGAGAAGCCGAGCTCTTCAGTGAATTGGCTTGCTCCTGGCACGTGGTCTC  
AGACTGGAGGTCGT

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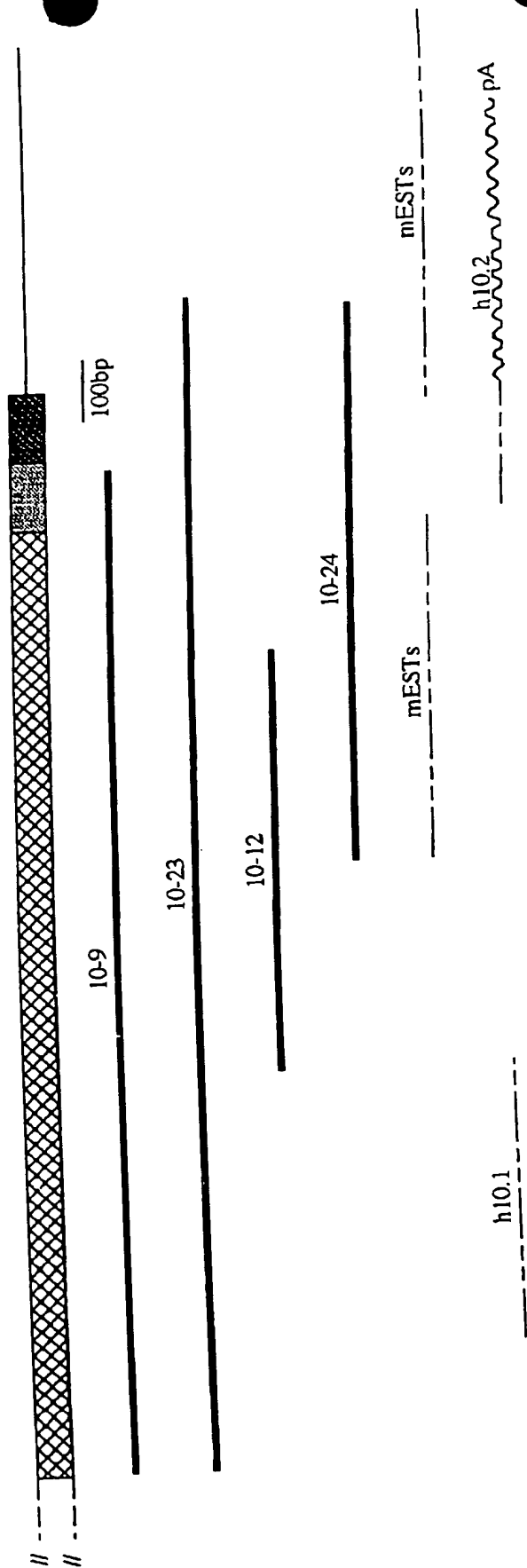


FIGURE 33

FIGURE 34

GGCACGAGGCTGTGTCCAGCACACAGAGAGGGGCCCGCCATCTGCTTTGGTTTCAGAGCCCTGTGTCTGTCTGTCACTTAG  
 ACTCTTCCTCCCGGCTCGCAGCTCACCCCTCCATCCTCCTTACTGGCTCCAGCATGACTCGCTTCTCTTATGCAGAGTACT  
 TTGCTCTGTTTCACTCTGGCTCTGCACCTTCCAGGTCCCTTTCGTCTCCCGAGAACCACCGGCCCGCGCACCCCTGGGT  
 CTGTTCCAAGGGGTATGCAGAAGTATAGCAGCAACCTGTTCAAGACCTCCAGATGGCGGCTATGGACCCCGTGTGAA  
 GGCCATCAAGGAAGGGATGAAGAGGCCCTTGAAGATCATGATCCAGGATGGGAAGAATCTTGCAGAGCCCAACAAGGAGG  
 GCTGGCTGCCGCTCCACGAGGCTGCCTACTATGGCCAGCTGGGCTGCCTGAAAGTCTTGCAGCAAGCCTACCCAGGGACC  
 ATTGACCAACGCACACTGCAGGAAGAGACAGCATTTATACCTGGCCACATGCAGAGAACACCTGGATTGCCTCCTGTCTGCT  
 GCTCCAGGCGGGGCGAGAGCCTGACATCTCTAACAATCCAGGGAGACTCCACTTTACAAAGCCTGTGAGCGCAAGAACG  
 CGGAGGCGGTGAGGATATTGGTGCATACAACGCAGACGCCAACCACCGCTGTAAACAGGGGCTGGACCGCACTGCACGAG  
 TCTGTCTCCCGCAATGACCTGGAGGTCTGGAGATCCTAGTGAGTGGCGGGGCCAAGGTGGAGGCCAAGAATGTCTACAG  
 CATCACCCCTTTGTTTGTGGCTGCCAGAGTGGGCAGCTGGAGGCCCTGAGGTTCTTGCCCAAGCATGGTGCAGACATCA  
 ACACGCAGGCCAGTGACAGTGCATCAGCCCTCTACGAGGCCAGCAAGAATGAGCATGAAGACGTGGTAGAGTTTCTTCTC  
 TCTCAGGGCGCCGATGCTAACAAGCCCAACAAGGACGGCCTGCTCCCCCTGCATGTTGCCCTCCAAGAAGGGCAACTATAG  
 AATAGTGAGATGCTGCTGCTGTGACAGCCGCACGGCGGTGCGCCGTAGCGGCATCAGCCCCGCTGCACCTAGCGGGCCG  
 AGCGCAACCACGACGGGTGCTGGAGGCGCTGCTGGCCGCGCGCTTCGACGTGAACGCACCTCTGGCTCCCGAGCGCGCC  
 CGCCTCTACGAGGACCGCCGAGTTCTGCGCTCTACTTCGCTGTGGTCAACAACAATGTGTACGCCACCGAGCTGTTGCT  
 GCTGGCGGGCGCGGACCCCAACCGGATGTCTCAGCCCTCTGCTCGTGGCCATCCGCCACGGCTGCCTGCGCACCATGC  
 AGCTGCTGTTGGACCATGGCGCCAACATCGACGCCTACATCGCCACTCACCCACCGCCTTTCCAGCCACCATCATGTTT  
 GCCATGAAGTGCTGTCGTTACTCAAGTTCCTTATGGACCTCGGCTGCGATGGCGAGCCCTGCTTCTCCTGCCTGTACGG  
 CAACGGGCGGCACCAACCCGCCCCGCGACCTGGCCGCTTCCACGACGCCCGTGGACGACAAGGCACCTAGCGTGGTGCA  
 GTTCTGTGAGTTTCTGTGCGCCCCCGGAAGTGAGCCGCTGGGCGGGAACCATCATCGATGTCTCCTGGACTATGTGGGCA  
 ACGTGCAGCTGTGCTCCCGGCTGAAGGAGCACATCGACAGCTTTGAGGACTGGGCTGTATCAAGGAGAAGGCAGAACCT  
 CCGAGACCTCTGGCTCACCTCTGCCGGCTGCGGGTTCGGAAGGCCATAGGAAAATACCGGATAAAAACCTCTGGACACACT  
 GCGGCTTCCCGGCAGGCTAATCAGATACTTGAAATATGAGAATACACAGTAaccagcctggagaggagatgtggccttca  
 gactgtttccgggacgccccaggtggcctgcateccaggacccccctggggtcagaacaggtgtgaccttgctggttctttg  
 ctggagcttcacccaaagtgagaacctgatgtgggagtgagctggaacctctgctttcacactgtcagcggatcgag  
 acccgctctgcttctggccatagccagagaccttcaacctggggccagggag-gctggtctggycaaggtggcccaggc  
 aggaatcctggccttaagctggagaactttaggaatccctcactggaccctcagctttcaggctgcgagggagacgccc  
 agcccaagtattttatttcwctgacacaataacgttgcagaaaaaaacatgggagcagcttattccttag  
 tagggatatttacttgcagengcgttaaagcacttggaacatgcgttcnactatgcttgagaatcccccttgactg  
 gtaaacgagagccgacgtgcttcaaggttggatttttggnttgcccccttggcgttccgcggtttgntccgaengtaat  
 tgaccccggtgttttgcactttcgaggttccgactattggggggcttttgggtgtccccaaaattgtgggtggtgtgcg  
 gacgccacgagaagtggttcatggcgataatcattactgngagaatgtagagcgcggttttcaagaataaatattttt  
 aagccgccttcccaaaa

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FIGURE 35

h10.1  
CCTCCTGAGAGTTCGCCGGCCCGGGCCCAATGGGnTTGTTCCAAGGGGT CATGCAGAAATACAGCAGCAGCTTGTTCAAG  
ACCTCCCAGCTGGCGCCTGCGGACCCCTTGATAAAGGCCATCAAGGATGnCGATGAAGAGGCCTTGAAGACCATGATCAA  
GGAAGGGAAGAATCTCGCAGAGCCCAACAAGGAGGGCTGGCTGCCGCTGCACGAGGCCGCATACTATGGCCAGGTGGGCT  
GCCTGAAAGTCTTCAGCGAGCGTACCCAGGGACCATCGACCAGCGCACCTGCAGGAGGAAACAGCCGTTTACTTGGCA  
ACGTGCAGGGGCCACCTGGACTGTCTCCTGTCACTGCTCCAAGCAGGGGCAGAGCGGGACATCTCCAACAAATCCCAGAG  
GAnACCGCTCTACAAGCCTGTGAGCGCAAGAACGCGGAAGCCGTGAAGATTCTTGGTGCAGCAACAACGAGACACCAAC  
AACGCTGCAACCGGGCTG

h10.2  
GTGCAGCTCTGCTCGCGGCTGAAGGAACACATCGACAGCTTTGAGGACTGGGCCGTCATCAAGGAGAAGGCAGAACCTCC  
AAGACCTCTGGCTCACCTTTGCCGACTGCGGGTTCGAAAGGCCATTGGGAAATACCGTATAAACTCCTAGACACCTTGC  
CGTCCCAGGCAGGCTGATTAGATACCTGAAATACGAGAACACCCAGTAAC TGGGGCCACGGGGAGAGAGGAGTAGCCCC  
TCAGACTCTTCTTACTAAGTCTCAGGACGTGGTGTTCCTCAACTCCAAGGGGACCTGGTGACAGAGAGGCTGCAGGCTG  
CCTCCCTCTCAGCCTGGACAGCTACCAGGATCTCACTGGGTCTCAGGGCCAGAGCTTTGGCCAGAGCAGAGAACAGAAAT  
GTGTCAAGGAGAAGAATCATTTGTTTACAACTGATGAGCAGATCCCAGACCTTCTCTACCTTCAGGAATGGCAGAAACC  
TCTATTCCTGGGGCCAGGGCAGAGCTTGAGGTGTTCTGGGGAAGGTGGTGTCTCAGAGCCTTCCCTGTGCCCTCCACTTG  
TCTTGAAAACTCACCCTTGACTTCAGAGCTTTCTCTCAAAGACTAAGATGAAGACGTGGCCCCAAGGTAGGGGGTAGG  
GGGAGCCTGGGTCTTGGAGGGCTTGTTAAGTATTAATATAATAAATGTTACACATGTGAAAAAAAAA

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FIGURE 36A

TTGGAGAAGTGTGGTTGGTATTGGGGGCCAATGAATTGGGAAGATGCAGAGATGAAGCTGAAAGGGAAACCAGATGGTTCT  
TTCCTGGTACGAGACAGTTCTGATCCTCGTTACATCCTGAGCCTCAGTTTCCGATCACAGGGTATCACCCACCACACTAGA  
ATGGAGCACTACAGAGGAACCTTCAGCCTGTGGTGTCAATCCCAAGTTTGAGGACCGCTGTCAATCTGTTGTAGAGTTTATT  
AAGAGAGCCATTATGCACTCCAAGAATGGAAAGTTTCTCTATTTCTTAAGATCCAGGGTCCAGGACTGCCACCAACTCCT  
GTCCAGCTGCTCTATCCAGTGTCCCGATTTCAGCAATGTCAAATCCCTCCAGCACCTTTGCAGATTCCGGATACGACAGCTC  
GTCAGGATAGATCACATCCAGATCTCCCACTGCCTAAACCTCTGATCTCTTATATCCGAAAGTTCTACTACTATGATCCT  
CAGGAAGAGGTATACCTGTCTCTAAAGGAAGCGCAGCGTCAGTTTCCAAACAGAAGCAAGAGGTGGAACCCCTCCACGTAGC  
GAGGGGCTCCCTGCTGGTCACCACCAAGGGCATTGGTTGCCAAGCTCCAGCTTTGAgaaccaaaattaagctaccatgaa  
aagaagaggaaaagtgagggaacaggaagggtgggattctctgtgcagagactttggttccccacgcaagccctggggcctt  
ggaagaagcacatgaccgtactctgcgtggggctccacctcacacccacccctgggcatcttaggactggaggggctcctt  
ggaaaactggaagaagtctcaacactgtttctttttca

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FIGURE 36B

....LEKCGWYWGPMNWEDAEMKLKGKPDGSFLVRDSSDPRIYLSLSFRSQGITHETRMHEYRGTFSLWCHPKFEDRCQSV  
VEFIKRAIMHSKNGKFLYFLRSRVPGLPPTPVQLLYPVSRSNVKSLQHLCRFRIRQLVRIDBIPDLPLPKPLISYIRKFY  
YYDPQEEVYLSLKEAQRQFPNRSKRWNPPRSEGLPAGHHQGHVAKLQL\*

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FIGURE 37

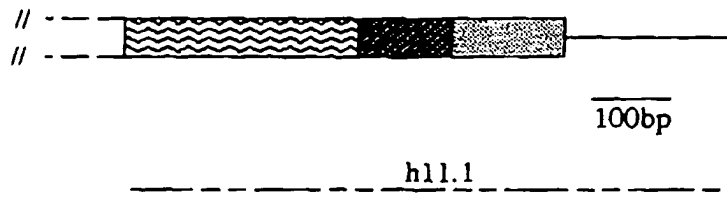


FIGURE 38



100bp

m12.1

pA

h12.1

h12.2

pA

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FIGURE 39

GTTCCAAGCCTAACCCATCTTTGTCGTTTGGAAATTCGGGCCAGTCTAAAAGCAGAGCACCTTCACTCTGACATTTTCAT  
CCATCAGTTGCCACTTCCCAGAAGTCTGCAGAACTATTTGCTCTATGAAGAGGTTTTAAGAATGAATGAGATTCTAGAAC  
CAGCAGCTAATCAGGATGGAGAAACCAGCAAGGCCACCTGAcacaggtcctttaattctgtttagtcacaaaagacggct  
tgtgtgactgtttggatttggtgatcaaatgtccatgtttacagttgcttttcccagtttgtgtctttcccaatattgtg  
aaccttatccatcttgcttactcagttttatttctagtgcactttgttgtgtattatttgtttacctgaccattttcta  
ctttattctgctaataaactgtaattctgaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

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FIGURE 40

GGGGATCGAAAGCGGGGGCTTCTGGGACGCAGCTCTGGAGACCGGGCCTCGGACCAGCCATTTCCGGTGTAGAAGTGGCAG  
CACGGCAGACTGGTCAAAACAAATGGATTTTACAGAGGCTTACGCGGACACGTGCTCTACAGTTGGACTTGCTGCCAGGGA  
AGGCAATGTTAAAGTCTTAAGGAACTGCTCAAAAAGGGCCGAAGTGTGATGTTGCTGATAACAGGGGATGGATGCCAA  
TTCATGAAGCAGCTTATCACAACCTCTGTAGAATGTTTGCAAATGTTAATTAATGCAGATTCATCTGAAAACCTACATTAAG  
ATGAAGACCTTTGAAGGTTTCTGTGCTTTGCATCTCGCTGCAAGTCAAGGACATTGGAAAATCGTACAGATTCTTTTAGA  
AGCTGGGGCAGATCCTAATGCAACTACTTTAGAAGAAACGACACCATTGTTTTAGCTGTTGAAAATGGACAGATAGATG  
TGTTAAGGCTGTTGCTTCAACACGGAGCAAATGTTAATGGATCCCATTCTATGTGTGGATGGAACCTCCTGCACCAGGCT  
TCTTTTCAGGAAAATGCTGAGATCATAAAATTGCTTCTTAGAAAAGGAGCAAACAAGGAATGCCAGGATGACTTTGGAAT  
CACACCTTTATTTGTGGCTGCTCAGTATGGCCAAGCTAGAAAGCTTTGAAGCATACTTATTTTCATCCGGGTGCAAATGTC  
AATTGTCAAGCCTTGACAAAGCTACC

h12.2

CACAAATGGGACCATACAAAAATCTTGGNACTTGTTAATAACCACTTNACTAACCGGGACCTGTGACACTGGGNCTAAAC  
AAAGTAAGTCCCTGTTTACTCAGNCAGTGTGTTGGGGGACATGAAGGATTGCCTAGNAAATATTACTCCGGAATGGTCTAC  
AGCCCAGNACGCCCAGGCGTGCCCTTGTTTTGGATTCACTTCTCCTGTGTGCATGGCTTTCCAAAAGGAGGTGGAGCTGT  
RAGTTCTTTGGAATTGTGAACATTCTTTTGAATATGGAGCCCAGATAAATGAACCTCATTTGGCATACTGCCTGAAGTA  
CGAGAAGTTTTGATATTTTCGTACTTTTGGAGAAAGGTTGCTCATTGGGACCATGGAACCATATATATGAATTTGTAA  
ATCATGCAATTAAAGCACAAAGCAAATATAAGGAGTGGTTGCCACATCTTCTGGTTGCTGGATTGACCCACTGATTCTA  
CTGTGCAATTCTTGGATTGACTCAGTCAGCATTGACACCCTTATCTTCACTTTGGAGTTTACTAATTGGAAGACACTTGC  
ACCAGCTGTTGAAAGGATGCTCTCTGCTCGTGCCTCAAACGCTTGGATTCTACAGCAACATATTGCCCACTGTTCCATCC  
CTGACCCATCTTTGTCGTTTTGGAAATTCGGTCCAGTCTAAAATCAGAACGTCTACGGTCTGACAGTTATATTAGTCAGCT  
GCCACTTCCCAGAAGCCTACATAATTATTTGCTCTATGAAGACGTTCTGAGGATGTATGAAGTTCCAGAACTGGCAGCTA  
TTCAAGATGGATAAATCAGTGAACTACTTAACACAGCTAATTTTTTCTCTGAAAAATCATCGAGACAAAAGGCCACA  
GAGTACAAGTTTTATGATTTATAGTCAAAAGATGATTATTGATTGTGATAGGTTAGGTTTTGGGGGGCCAGTAGTT  
CAGTGAGAATGTTTATGTTTACAACCTAGCCTTCCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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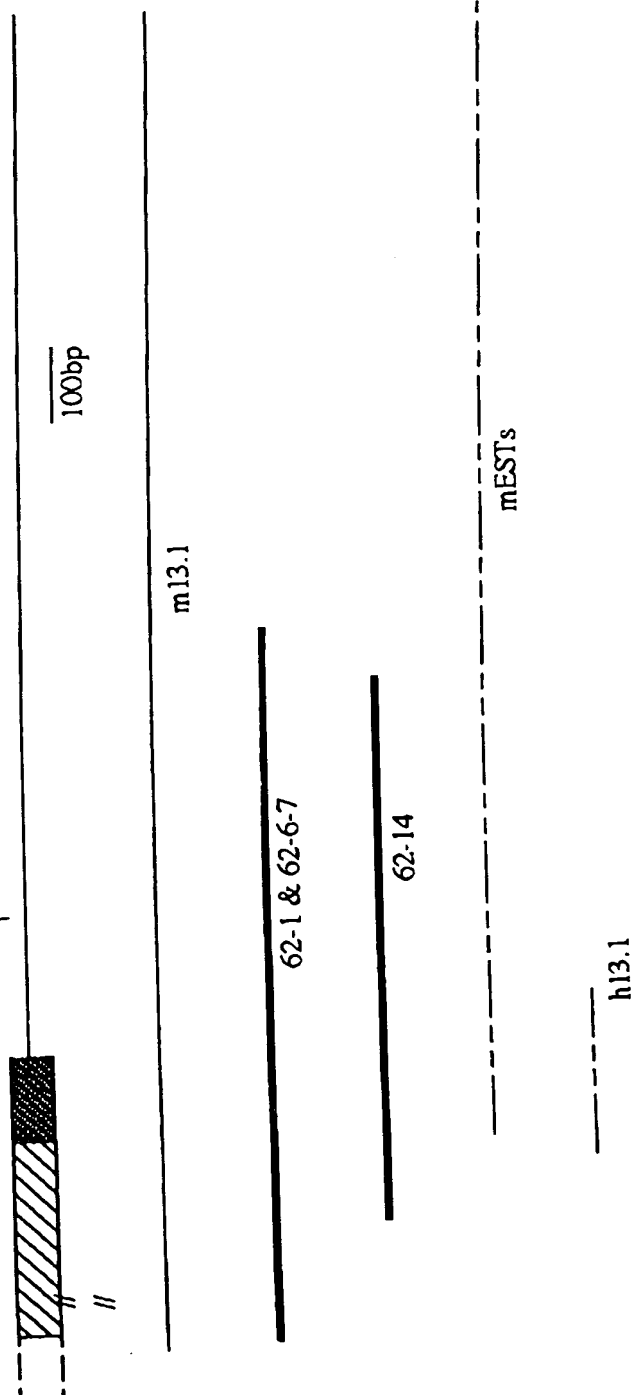


FIGURE 41

FIGURE 42A

CGGGGGGCTGGGACCTGGGGCGTAACCGTCTCTACACGACGGCAAGAACCAGCCAAGTAAACATACCCAGCCTTTCTG  
GAGCCGGACGAGACATTCATTGTCCCTGACTCCTTTTTCGTGGCCCTGGACATGRATGATGGGACCTTAAGTTTCATCGT  
GGATGGACAGTACATGGGAGTGGCTTTCGGGGACTCAAGGGTAAAAAGCTGTATCCTGTAGTGAGTGCCGTCTGGGGCC  
ACTGTGAGATCCGCATGCGCTACTTGAACGGACTTGATCCTGAGCCCCCTGCCACTCATGGACCTGTGCCGGCGTTCCGGTG  
CGCCTAGCGCTGGGAAAAGAGCGCCTGGGTGCCATCCCCGCTCTGCCGCTACCTGCCTCCCTCAAAGCCTACCTCCTCTA  
CCAGTGATccacatcccaggaccgccatacgacagccatctggtgccartcactgagcccgttggggtccgccgacccc  
tgccctgggatggaygccacctcagccatgggcagacgtgccccctcactaccggctgcctctgctgggggaacct  
atgccaacggacttctcccttcccaacactggctgaagcagcagcaccaggcccttccctgaaccagatgcagagaata  
aactatgaaaacctctctcaggcgcccttctgctctcaggtggagtgggtgccccccactctctgcagagagaggctaca  
cccacctggggggtcctgggaggtgaagactagtaggaggtgccagggtgartccaaaagcaggaatggccaggamcagg  
ccatacagatgaagctcaggatgtcacataccatggacamtgagacagaaccccagggtggamtcccttgggccaacga  
gtgccagctttaatgtcagctgcmggtgctctgtggcctgtatttattctttaaacagtagcaaaaggccatttatttatt  
ccacttagaaaaggaaaaccttgggtgggtggytccctcgatgtgctttccccacctccctggaatgtgtgtgccacacct  
gtccttgtcccaggccaggactgtggcacatgagctgggtgtgcacagatacacgtatgtcgtcgtgcatgacccctgact  
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cctagcagcacgtacatggagcaccacacatgtgctccagccctctggctgtttctcttctctagaatcaactccctac  
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aaagctcaggaggctgaggcaggaggattgctgtcagtggtgtacagaggtcatggccatcctgggctatattaaacctt  
gtcctttaagaaaaaagaaaatcaacttccattgaatctgagttctgctcatttctgcacaggtacaatagatgact  
tkatttgttgaaaaatgkttaatatatttacmtatataatatttgtaagaagcatt

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**FIGURE 42B**

....GGWDLGRNRLYHDGKNQPSKTYPAFLPDETFIVPDSFFVALDMXDGTLSFIVDGQYMGVAFRGLRGKKLYPVVSAV  
WGHCEIRMRYLNLGLDPEPLPLMDLCRRSVRLALGKERLGAIPALPLPASLKAYLLYQ\*

[illegible]

FIGURE 43

AAGGGTAAAAAACTGTATCCTGTAGTGAGTGCCGTCTGGGGCCACTGTNAGATCCGAATGCGCTACTTGAACGGACTCGAT  
CCCGAGACNTGCCGCTCATGGATTTGTGCCGTCGCTCGGTGCGCCTGGCCCTGGGGAGGGAGCGCCTGGGGGAGAACCANC  
NACCTGCCGCTGCCGGCTCCCTCAAGGCCTACCTCCTTACCASTGACGTTGCCATCATACCGCCAGCGCGACAGCCAC  
CTGGTGCCAACTCACTGAGCCGCCTG

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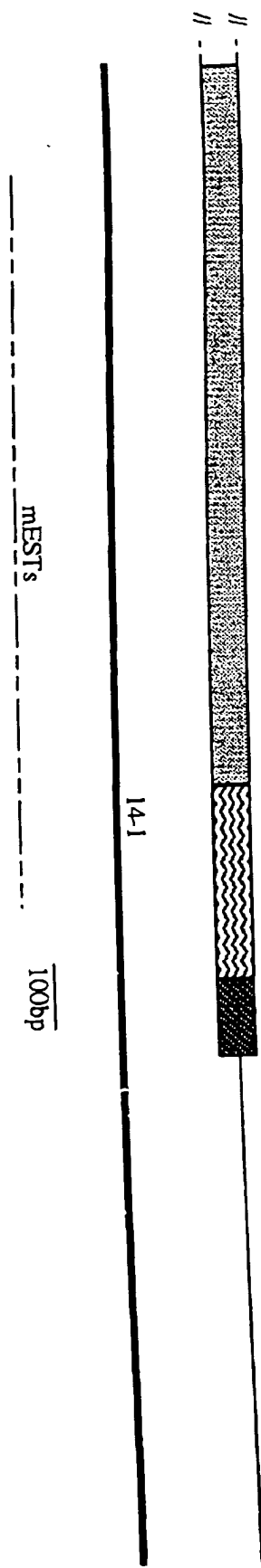


FIGURE 44

FIGURE 45A

.....AAGTGGCGGCGGTCCCTGGAGAGCAGGCGGAGGCAGCGGCAAGTCTGACTCTGGGCTGACCGTGGAGCCGGGGCGG  
GGGCTGACAGCCAGGCCTCCGCCTGGCGGGAGCCGCACGAGGAGCGGGAGTGGCCGGGCTCTCTTCCGCGCTTGAGCGA  
GCGCCGGGTGATGGCGGTGGTATGGCGGCAGGCGCTCGGACAGCTCCGCTTGAGCTGAGCTCGGAGAGATCCGTCCAGA  
AAGTGGCCAGAAGAACTTCTCTTAGAAAAAGCTGAAAAACACARTATTTATAACACTGGAAATTGTAAAGAATTTGTTT  
AAAATGGCTGAAAACAATAGTAAAAATGTAGATGTACGGCCTAAAAACAAGTCGGAGTCGAAGTCTGACAGGAAGGATGG  
TTATGTGTGGAGTGGAAAGAAGTTGTCTTGGTCCAAAAAGAGTGAGAGTTGTTCTGAATCTGAAGCCATAGGTACTGTTG  
AGAATGTTGAAATTCCTCTAAGAAGCCAAGAAAGGCAGCTTAGCTGTTTCGTCCATTGAGTTGGACTTAGATCATTCTGT  
GGGCATAGATTTTTAGGCCGATCCCTTAAACAGAACTGCAAGATGCGGTGGGGCAGTGTTCCTCAATAAAGAATTGTAG  
TGGCCGACACTCTCCAGGGCTTCCATCTAAAAGAAAGATTCTATCAGTGAACCTCATGTTAGATAAGTGCCCTTTCCAC  
CTCGCTCAGATTTAGCCTTTAGGTGGCATTATTTATTAACGACACACTGTTCTTATGAGTCCCAACTCAGATGAATGGGTG  
AGTGCAGACCTGTCTGAGAGGAACTGAGAGATGCTCAGCTGAAACGAAGAAACACAGAAGATGACATAACCTGTTCTC  
ACATACCAATGGCCAGCCTTGTGTCTAATCTGCAACAGTGCTTCGTGTACAGGTGGTCACATAACTGGTCTATGATGA  
ACTTGGTCACAAACAACAGCATAGAAGACAGTGACATGGATTGAGGATGAAATTATAACGCTGTGCACAAGCTCCAGA  
AAAAGGAATAAGCCCAGGTGGGAAATGGAAGAGGAGATCCTGCAGTTGGAGGCACCTCCTAAGTTCCACACCCAGATCGA  
CTACGTCCACTGCCTTGTTCAGACCTCCTTCAGATCAGTAACAATCCGTGCTACTGGGGTGTATGGACAAATATGCAG  
CCGAAGCTCTGCTGGAAGGAAAGCCAGAGGGCACCTTTTACTTCGAGATTGAGCGCAGGAAGATTATTTATCTCTGTT  
AGTTTTAGACGCTACAGTCGTTCTCTTCATGCTAGAATTGAGCAGTGGAAATCATAACTTTAGCTTTGATGCCCATGATCC  
TTGTGTCTTCCATTCTCTGATATTACTGGGCTCCTGGAACACTATAAGGACCCAGTGCCTGTATGTTCTTTGAGCCGC  
TCTTGTCCACTCCCTTAATCCGGACGTTCCCTTTTCTTGCAGCATATTTGCAGAACGGTTATTTGTAATTGTACGACT  
TACGATGGCATCGATGCCCTTCCATTCTCTCGCCTATGAAATTGTATCTGAAGGAATACCATTATAAATCAAAAGTTAG  
GTTACTCAGGATTGATGTGCCAGAGCAGCAGTGATgcgagaggttagaatgtcgacctgcatacatatatttcattta  
atattatatttcttatgcctctttgaattttgtacaaaggcagttgaatcaaataaaactgtgccctaagttttaattc  
cagatcaatttatatttttttatgatacacttggtatatatattttaagcaggtgtttggtttttgtttttaccatataaatt  
tacatatggtccaggcatattttacaatttcaaggcattgcatatacatattgaatattctgtattttttaataatcttt  
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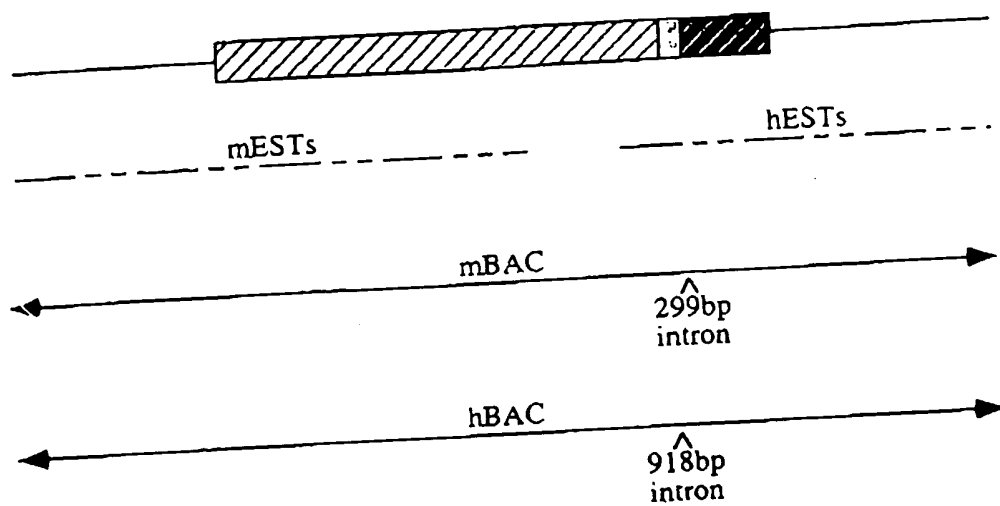
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FIGURE 45B

.....SGGGPWRAGGSGKSDSGLTVEPGRGLTARPPPGGSRTSGSGRASLPRLSERRVMAVMAAGARTAPLELSSERS  
VQKVPRRNFLLEKLKNTXFITLEIVKNLFKMAENNSKNVDVRPKTSRSDRKGYVWSGKLSWSKKSESCSESEAIG  
TVENVEIPLRSQERQLSCSSIELDLDHSCGHRFLGRSLKQLQDAVGQCFPIKNCSGRHSPLPSKRKIHISELMLDKCP  
FPPRSDLAFRWBFIKRHTVPMSPNSDEWVSADLSEKLRDAQLKRRNTEDDIPCFSHNGQPCVITANSASCTGGHITGS  
MMNLVTNNSIEDSDMDSEDEIITLCTSSRKRNKPRWEMEEEILQLEAPPKFHTQIDYVBCLVPDLLQISNNPCYWGVMKD  
YAAEALLEGKPEGTFLLRDSAQEDYLFVSFRRYSRSLHARIEQWNHNFSDAHDPCVFHSPDITGLLEHYKOPSACMFF  
EPLLSTPLIRTFFPSLQIBICRTVICNCTTYDGIDALPISPMRLYLKEYHYKSKVRLLRIDVPEQQ\*

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FIGURE 46



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**FIGURE 47A (CONTINUED)**

cgtcttgccagtcaccaatggcccacacaggttcataggccaggaccaccttgctccagtctttcacattatctgtggggc  
agagaggagagtgagttaggaaggagctgacccgccaagc

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FIGURE 47B

MCQTALARGSSSTPTSQALYSDFSPPEGLEELLSAPPPDLVAQRHHGWNPKDCSENIDVKEGGLCFERRPVAQSTDCVRGK  
RGYSRGLHAWAISWPLEORGTHAVVGVATALAPLQADHYAALLGSNSESWGWDIGRGKLYHQSKGLEAPQYPAGPQGEQLV  
VPERLLVVLDMEEGTLGYSIGGTYLGPAFRGLKGRITLYPSVSAVWGQCQVRIRYMGERRVEEPOSLLHLSRLCVRHALGDT  
RLGQISTLPLPPAMKRYLLYK

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**FIGURE 48A**

gtactttctttatatctccataattttatttactattactacatgatgacattattttataaaaagtctttgttaacctcctt  
aaggattcactgcttaaatctccagtgcttagcacaaatcattaaatgcgaacagcaaaccttccaaattgtgttacatct  
ataacctcattggattctcactaccaaccccatgcaatagataactaatgtatctctgtcttacagaggaagaaacaggc  
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accatcattgtcctctattacataaacagaaaactacagaaatctggggctggggcgtagtggtcatgcctgaaatccca  
gcactttgggagaccctgtctctaaaaaaaatttttttttggccggagctgggtggctcacacctgtaactctcagcacttt  
gggaggctaaggcaggcagatcacaagggtcagtagttcttagaccagcctggccaacatggcaaaacctgtgtctactaa  
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GACCACTACGCGCGCTGCTGGGCAGCAACAGCAGTCTGTGGGCTGGGACATCGGGCGGGGAAGCTGTACCATCAGAG  
CAAGGGGCCCCGAGCCCCCTAGTATCCAGCGGAACTCAGGGTGAGCAGCTGGAGGTGCCAGAGAGACTGTGTGGTTT  
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# FIGURE 48A (CONTINUED)

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cagtaccaaatggcccacacagggtcataggccaggacaccttgcctcagtccttcacgttatctgcagggcagagatac  
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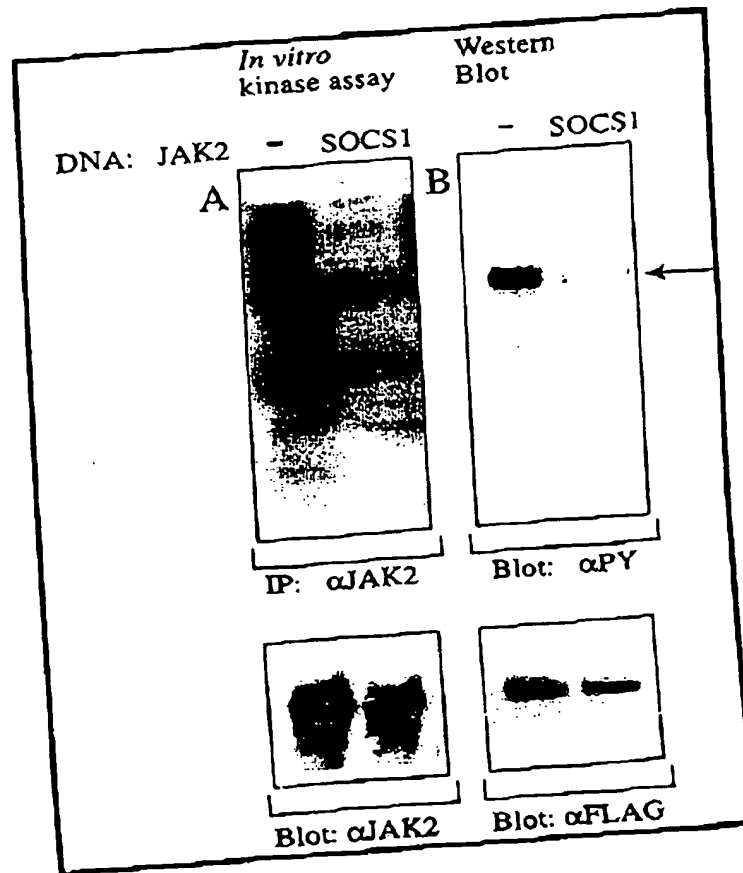
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FIGURE 48B

MGQTALAGGSSSTPTPQALYPDLSCPEGLEELLSAPPPDLGAQRRHGWNPKDCSENIEVKEGGLYFERRPVAQSTDGARGK  
RGYSRGLHAWEISWPLEQRGTHAVVGVATALAPLQTDHYAALLGSNSESWGWDIGRGKLYHQSKGPGAPQYPAGTQGEQLU  
/PERLLVVLDMEEGTLGYAIGGTYLGPAFRGLKGRITLYPAVSAVWGQCQVRIRYLGERRAEPPHSLHLSRLCVRHNLGDTK  
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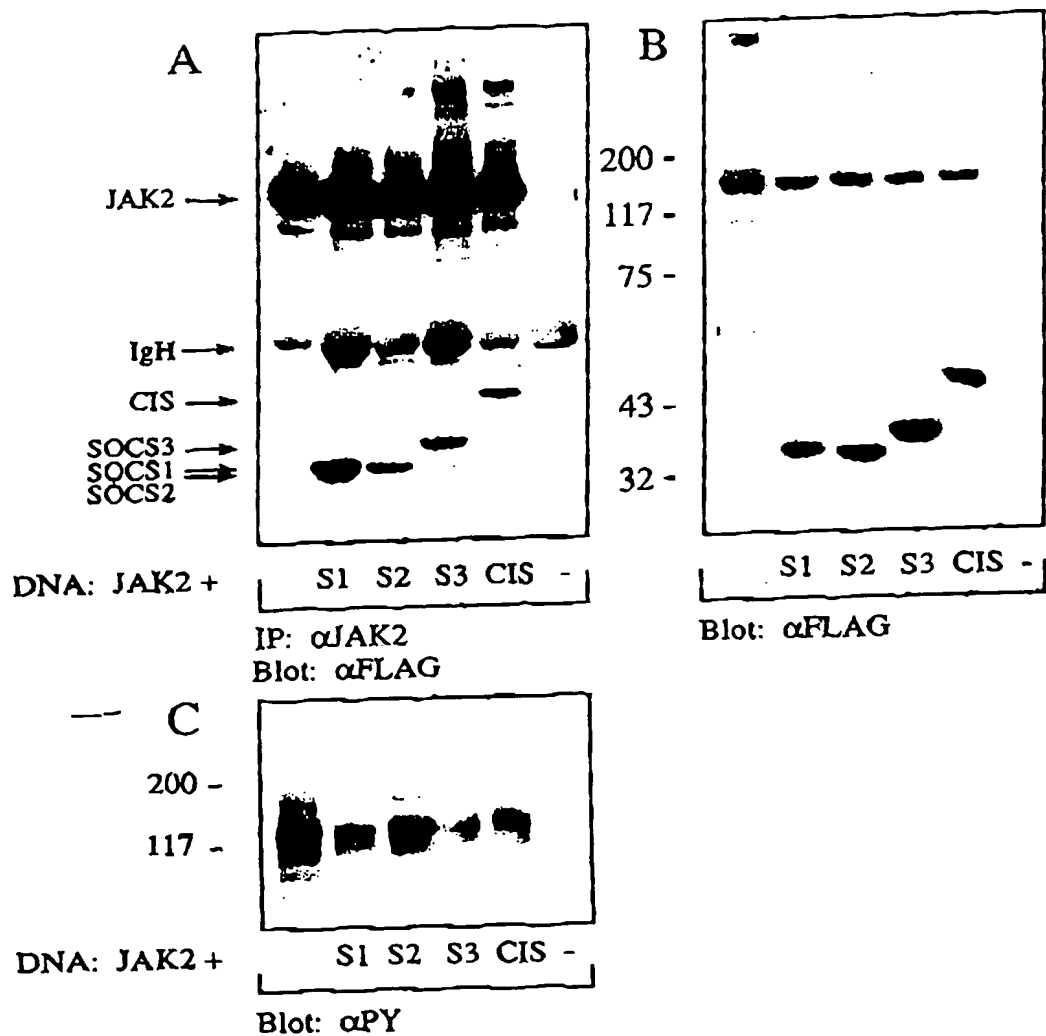
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FIGURE 49



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FIGURE 50



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